LBT-G2500/XB20/XB22

SERVICE MANUAL

US Model
LBT-G2500
AEP Model
UK Model
LBT-XB20
E Model
Australian Model
LBT-XB22

- LBT-G2500/XB20/XB22 is composed of following model. As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR LBT-G2500/XB20/XB22

	LBT-G2500	LBT-XB20	LBT-XB22
COMPACT DISC DECK RECEIVER SYSTEM	HCD-G2500	HCD-XB20	HCD-XB22
SPEAKER SYSTEM	SS-G2500	SS-XB20	SS-XB22

•Abbreviation
SP :Singapore
MY :Malaysia
AR :Argentine
MX :Mexican

SPECIFICATIONS

General

Power requirements
North American model:
120 V AC, 60 Hz
Mexican model: 120 V AC, 50/60 Hz
European Model: 230 V AC, 50/60 Hz
Australian and South African models:
220-240 V AC, 50/60 Hz
Other models: 110-120 V AC or
220-240 V AC, 50/60 Hz
(adjustable with voltage selector)
Power consumption 130 watts
Dimensions(w/h/d)incl.projecting parts and controls
Approx.355x423x440 mm
(14x16$^{3}/_{4}$x17$^{3}/_{8}$ in)
Mass Approx.14.0 kg
(30 lb 14 oz)
Supplied accessories: AM loop antenna(1)
Remote RM-SG5(1)
FM lead antenna(1)

Design and specifications are subject to change without notice.

PARTS LIST

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-475-829-11	REMOTE COMMANDER (RM-SG5)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-584-11	ANTENNA (FM) (G2500, XB22)	
	1-501-807-11	ANTENNA (FM) (XB20)	
	3-862-441-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-862-441-31	MANUAL, INSTRUCTION (FRENCH/SPANISH)	(E, MX, MY, SP, AR)
	3-862-441-41	MANUAL, INSTRUCTION (CHINESE) (E, MY, SP)	
	3-862-441-51	MANUAL, INSTRUCTION (FRENCHI/SPANISH/ PORTUGUESE) (AEP)	
	3-862-441-61	MANUAL, INSTRUCTION (GERMAN) (AEP)	
	3-862-441-71	MANUAL, INSTRUCTION (DUTCH/ITALIAN/ SWEDISH) (AEP)	
	3-862-441-81	MANUAL, INSTRUCTION (POLISH/RUSSIAN)	(AEP, UK)
	3-862-442-11	MANUAL, INSTRUCTION (HANGARIAN) (AEP)	
	3-862-442-21	MANUAL, INSTRUCTION (GREEK) (AEP)	
	3-862-442-31	MANUAL, INSTRUCTION (CZECH) (AEP)	
	3-862-442-41	MANUAL, INSTRUCTION (TURKISH) (AEP)	
	4-982-031-01	COVER, BATTERY (FOR RM-SG5)	

COMPACT Hi-Fi STEREO SYSTEM

SONY®

MICROFILM

9-922-864-11

Sony Corporation
Home A&V Products Company

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(Shibaura)

HCD-G2500/XB20/XB22

SERVICE MANUAL

US Model
HCD-G2500
AEP Model
UK Model
HCD-XB20
E Model
Australian Model
HCD-XB22

Photo : HCD-XB20

- This set is the tuner, deck, CD and amplifier section in LBT-G2500/XB20/XB22.

*Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ◻◻ are trademarks of Dolby Laboratories Licensing Corporation.

CD SECTION	Model Name Using Similar Mechanism		NEW
	CD Mechanism Type		CDM375BD29
	Base Unit Type		KSM-213ECM
	Optical Pick-up Type		KSS-213B/SN
TAPE DECK SECTION	Model Name Using Similar Mechanism		HCD-GRX2/RX33
	Tape Transpor Mechanism Type	DECK-A	TK20FX-SW943-800
		DECK-B	TK20FX-SW943-800

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS:
(U.S.A. model only)
POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 6 Ω loads both channels driven, from 70 – 20,000 Hz; rated 60 W per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 mW to rated output.

Amplifier section

North American model
Continuous RMS power output
70 W + 70 W (6 Ω at 1 kHz, 10% THD)
Total harmonic distortion
less than 0.09% (6 Ω at 1kHz, 30 W)

European model
DIN power output (Rated) 60 W + 60 W (6 Ω at 1 kHz, DIN)
Continuous RMS power output (Reference)
70 W + 70 W (6 Ω at 1 kHz, 10% THD)
Music power output (Reference)
120 W + 120 W (6 Ω at 1 kHz, 10%THD)

Other models
The following measured at AC 110,220 V 60 Hz;
DIN power output (Rated) 45 W + 45 W (6 Ω at 1 kHz, DIN)
Continuous RMS power output (Reference)
55 W + 55 W (6 Ω at 1 kHz, 10% THD)

The following measured at AC 120, 240 V 60Hz;
DIN power output (Rated) 50 W + 50 W (6 Ω at 1 kHz, DIN)
Continuous RMS power output (Reference)
60 W + 60 W (6 Ω at 1 kHz, 10% THD)

Peak music power output (Reference)
800 W
Inputs
PHONO IN (phone jacks):
sensitivity 3 mV, impedance 47 kilohms
Outputs
PHONES (stereo phone jack):
accepts headphones of 8 Ω or more
SPEAKER: accepts impedance of 6 to 16 Ω

CD player section
System: Compact disc and degital audio system
Laser: Semiconductor laser (λ = 780 nm)
Emission duration: continuous
Laser output: Max.44.6 µW*
*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture
Frequency response: 20 Hz – 20 kHz (±0.5 dB)
Wavelength: 780 – 790nm

Tape deck section
Recording system: 4-track 2-channel stereo
Frequency response (DOLBY NR OFF): 60 – 13,000 Hz (±3 dB), using a Sony TYPE I cassette

— Continued on next page —

MINI Hi-Fi COMPONENT SYSTEM

MICROFILM

SONY®

Tuner section
FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 Ω unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
(2 band model)	
North American model:	
	530 – 1,710 kHz (with the tuning interval set at 10 kHz)
Other models:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
	530 – 1,710 kHz (with the tuning interval set at 10 kHz)
(3 band model)	
MW:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
LW:	153 – 279 kHz (with the tuning interval set at 3 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	
	120 V AC, 60 Hz
Mexican model:	120 V AC, 50/60 Hz
European model:	230 V AC, 50/60 Hz
Australian, South African and Thailand models:	
	220 – 240 V AC, 50/60 Hz
Other models:	110 – 120 V AC or 220 – 240 V AC, 50/60 Hz (adjustable with voltage selector)
Power consumption	130 W
Dimensions (w/h/d) incl. projecting parts and controls	
	Approx.355 × 423 × 440 mm ($14 \times 16\ ^3/_4 \times 17\ ^3/_8$ in)
Mass	Approx. 14.0 kg (30 lb 14 oz.)
Supplied accessories	AM loop antenna (1)
	Remote RM-SG5 (1)
	FM lead antenna (1)

Design and specifications are subject to change without notice.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing
- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

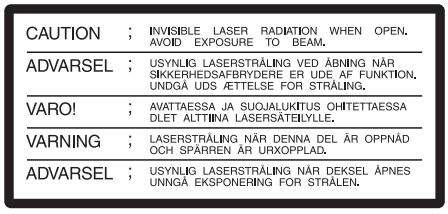
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.


CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA LASERSÄTEILYLLE.
VARNING ; LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

This caution label is located inside the unit.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

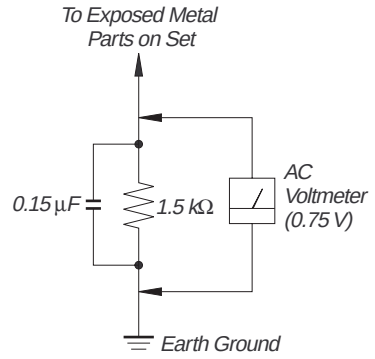


Fig. A. Using an AC voltmeter to check AC leakage.

TABLE OF CONTENTS

1. GENERAL ····
—FRONT PANEL— ····
—BACK PANEL— ····

2. DISASSEMBLY
2-1. Top Cover ····
2-2. Front Panel Assy ····
2-3. Main Board ····
2-4. Main Section ····
2-5. CD Mechanism Deck Section ····
2-6. Tape Mechanism Deck ····
2-7. Cassette Door ····
2-8. CD Door Assy ····
2-9. Base Unit ····
2-10. Disc Table ····

3. MECHANICAL ADJUSTMENTS ···· 11

4. ELECTRICAL ADJUSTMENTS ···· 11

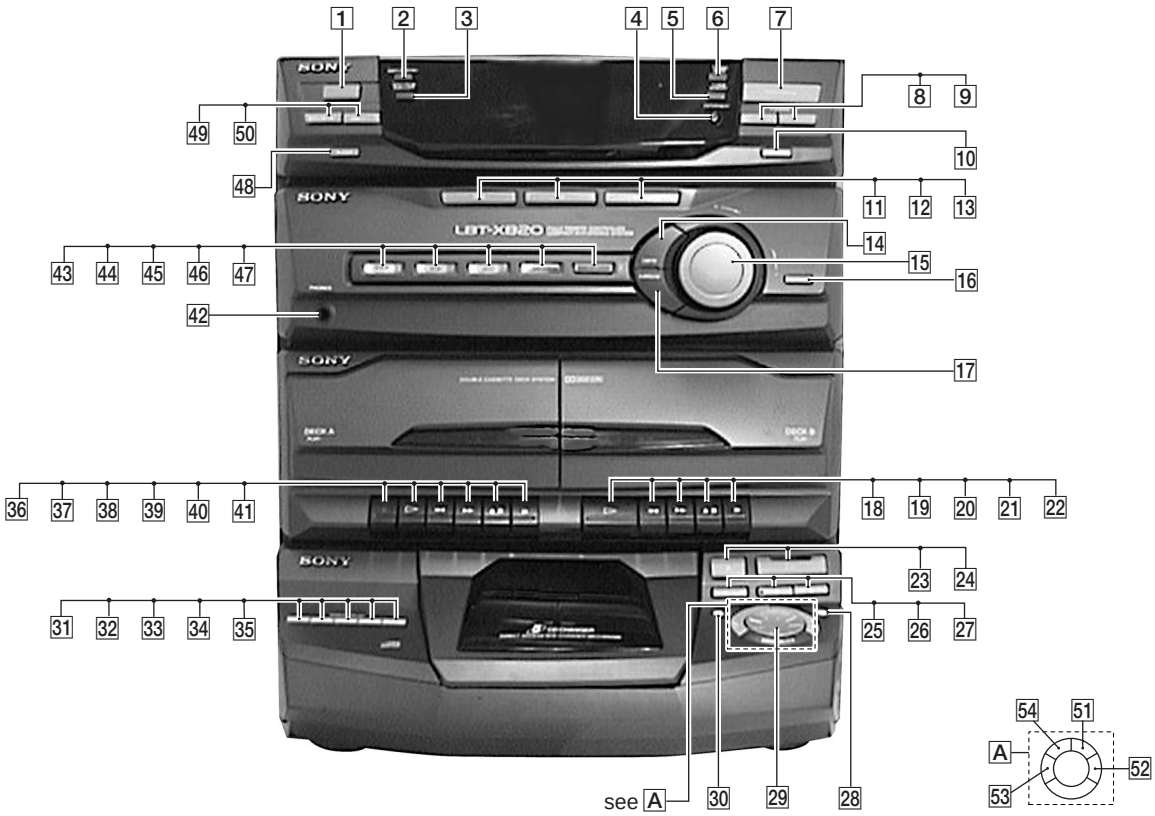
5. DIAGRAMS
5-1. Circuit Boards Location ····
5-2. Block Diagram —Deck Section— ···· 17
5-3. Block Diagram —Tuner/CD Section— ···· 19
5-4. Schematic Diagram —Main Section (1/2)— ···· 21
5-5. Schematic Diagram —Main Section (2/2)— (US, AUS, MX model) ····
5-6. Printed Wiring Board —Main Section— (US, AUS, MX model) ····
5-7. Printed Wiring Board —Main Section— (AEP, UK, E, SP, MY, AR model) ···· 34
5-8. Schematic Diagram —Main Section (2/2)— (AEP, UK, E, SP, MY, AR model) ···· 39
5-9. Schematic Diagram —Display Section— ···· 43
5-10. Printed Wiring Board —Display Section— ···· 47
5-11. Printed Wiring Board —CD Section— ···· 52
5-12. Schematic Diagram —CD Section— ···· 57
5-13. Schematic Diagram —Power Section— ···· 60
5-14. Printed Wiring Board —Power Section— ···· 63
5-15. IC Block Diagrams ····
5-16. IC Pin Function Description ···· 7

6. EXPLODED VIEWS
6-1. Top Cover Section ····
6-2. CD Door Section ····
6-3. Panel Section ····
6-4. Main Section ····
6-5. Cassette Button Section ····
6-6. Cassette Mechanism Deck Section ···· 78
6-7. CD Mechanism Deck Section ···· 79
6-8. Base Unit Section ····

7. ELECTRICAL PARTS LIST ···· 81

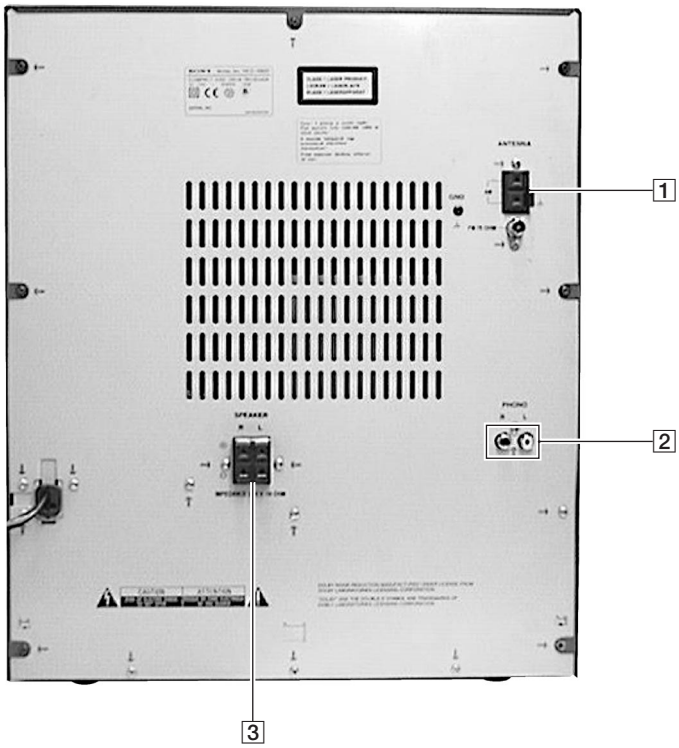
SECTION 1
GENERAL

– FRONT PANEL –



1 I/⏻ (POWER) button
2 DISPLAY/DEMO button
3 SPECTRUM ANALYZER button
4 ENTER/NEXT button
5 TUNER MEMORY button
6 TUNING MODE button
7 TUNER/BAND button
8 TUNING – button
9 TUNING + button
10 STEREO/MONO button
11 TAPE button
12 CD button
13 PHONO button
14 DBFB button
15 VOLUME knob
16 DOLBY NR button
17 SURROUND button
18 ▷ button
19 ◀◀ button
20 ▶▶ button
21 ⏏■ button
22 ❚❚ button
23 ⏏ button
24 ▷ button
25 DISC SKIP button
26 ❚❚ button
27 ■ button
28 ▶▶ button
29 ⏮ AMS ⏭ button
30 ◀◀ button
31 DISC1 button
32 DISC2 button
33 DISC3 button
34 DISC4 button
35 DISC5 button
36 ● button
37 ▷ button
38 ◀◀ button
39 ▶▶ button
40 ⏏■ button
41 ❚❚ button
42 PHONES jack
43 ROCK button
44 POP button
45 JAZZ button
46 SALSA button
47 FLAT button
48 SLEEP button
49 🕘/CLOCK SET button
50 DAILY1 button
51 PLAY MODE button
52 REPEAT button
53 EDIT button
54 1/ALL DISC button

– BACK PANEL –

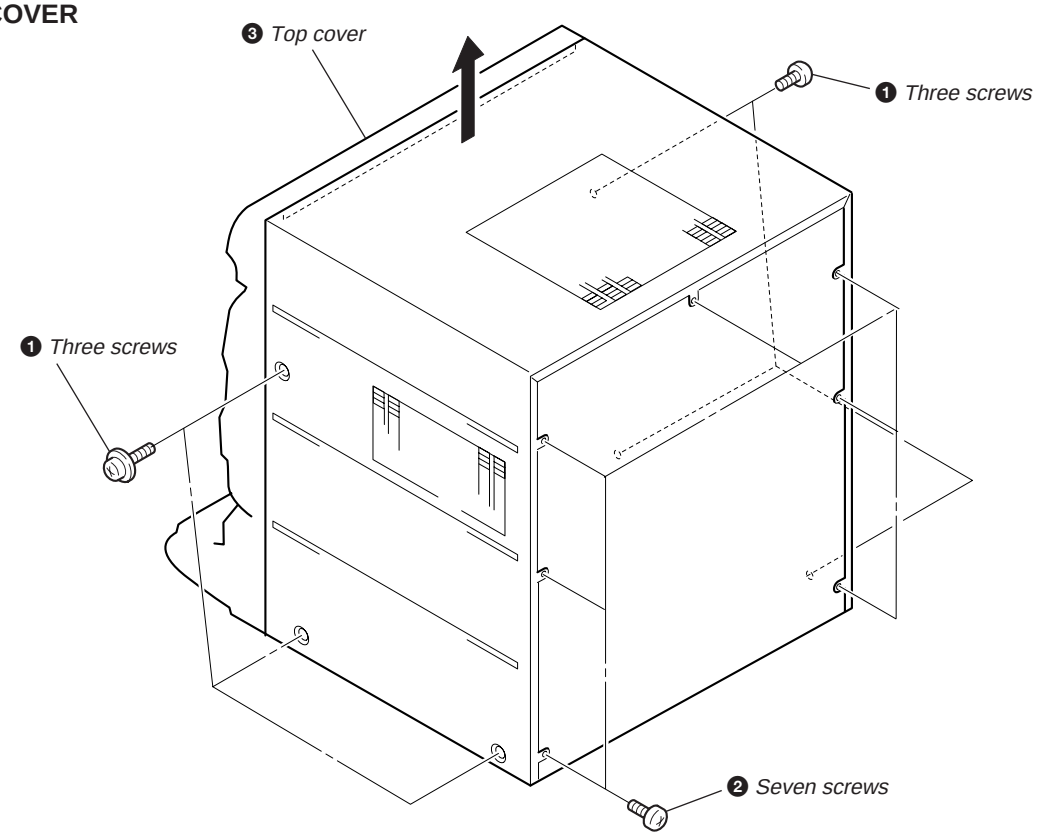


1 ANTENNA terminal
2 PHONO jack
3 SPEAKER terminal

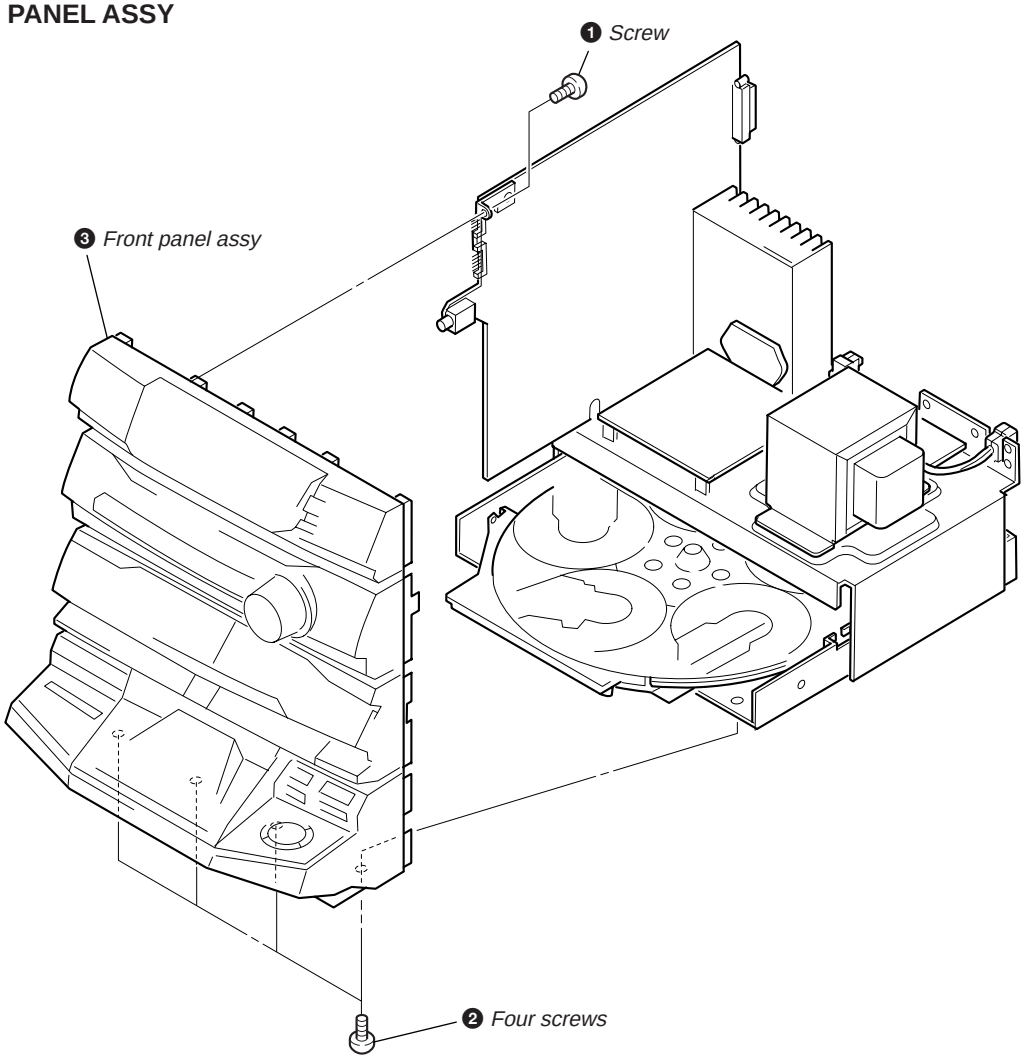
SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

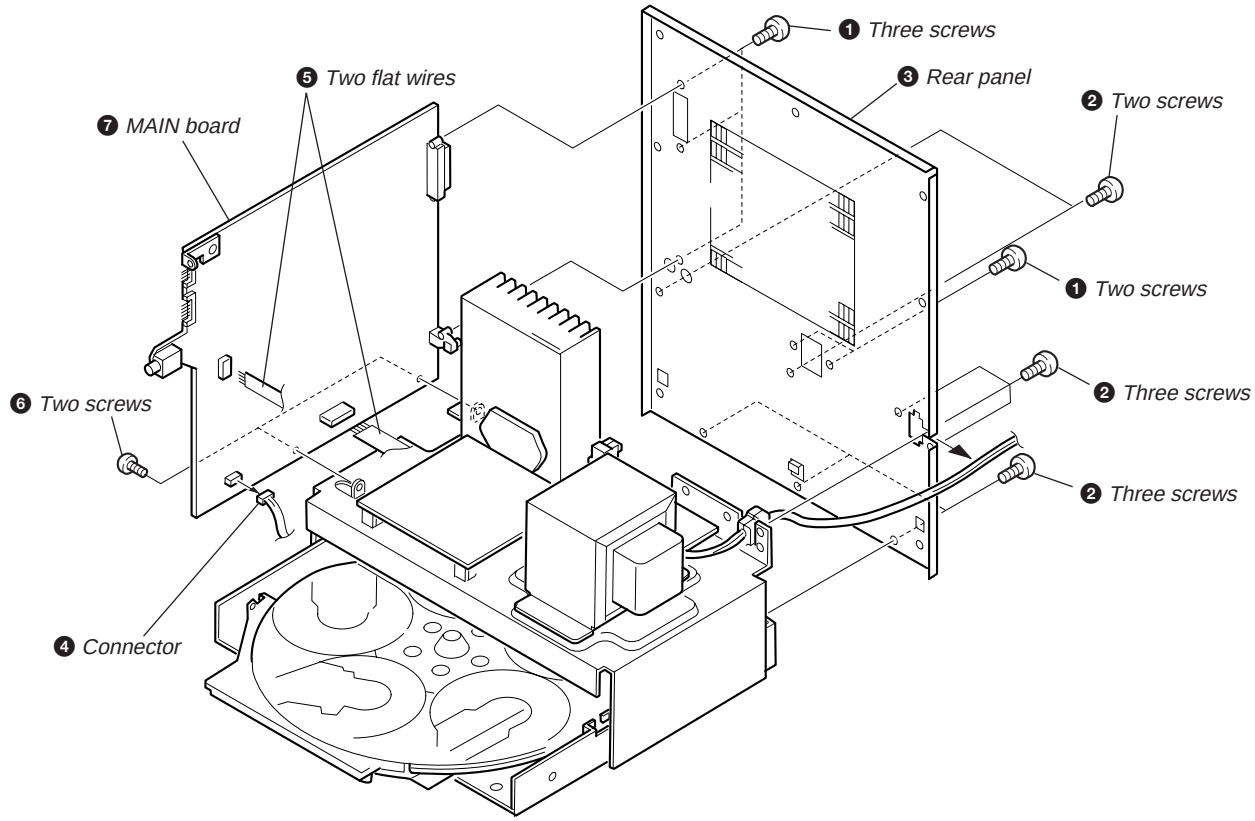
2-1. TOP COVER



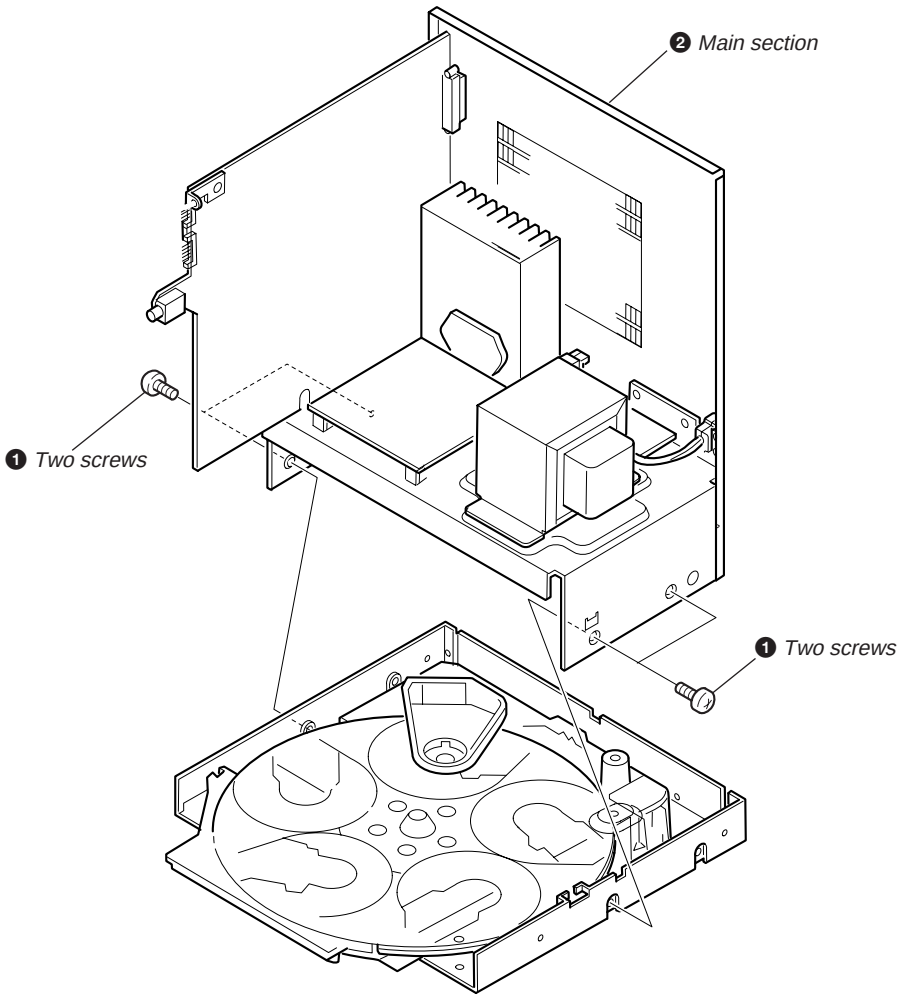
2-2. FRONT PANEL ASSY



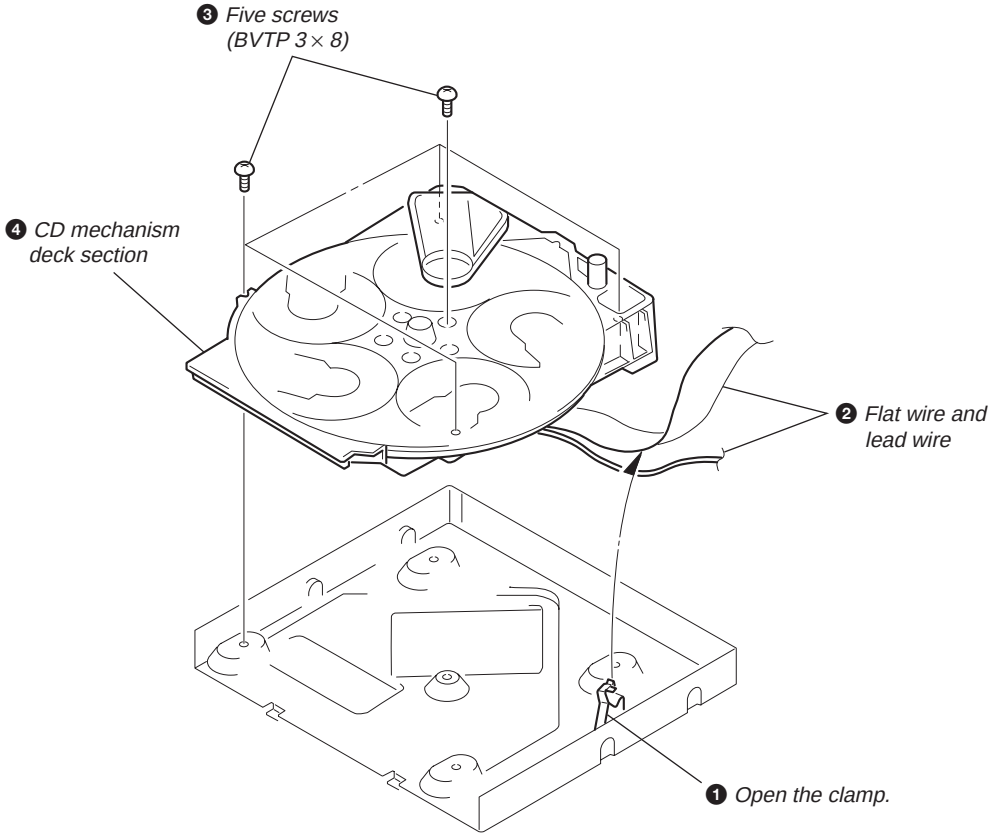
2-3. MAIN BOARD



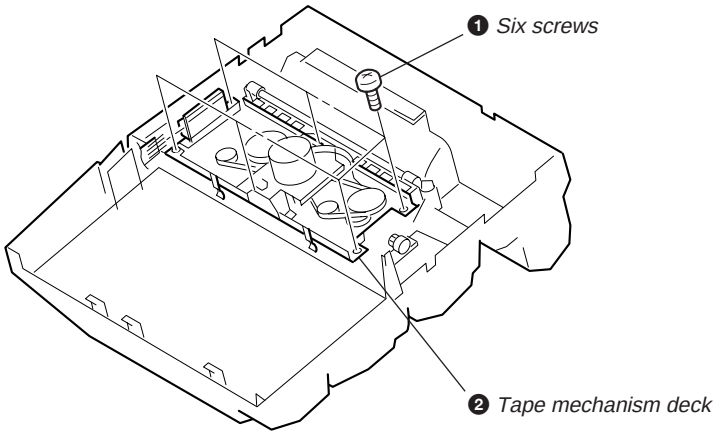
2-4. MAIN SECTION



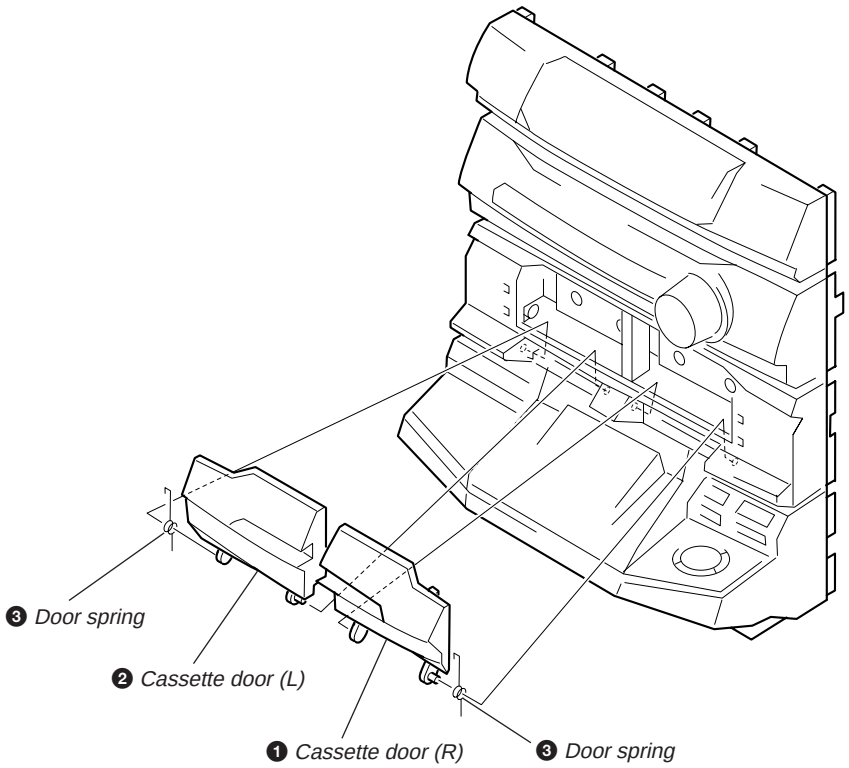
2-5. CD MECHANISM DECK SECTION



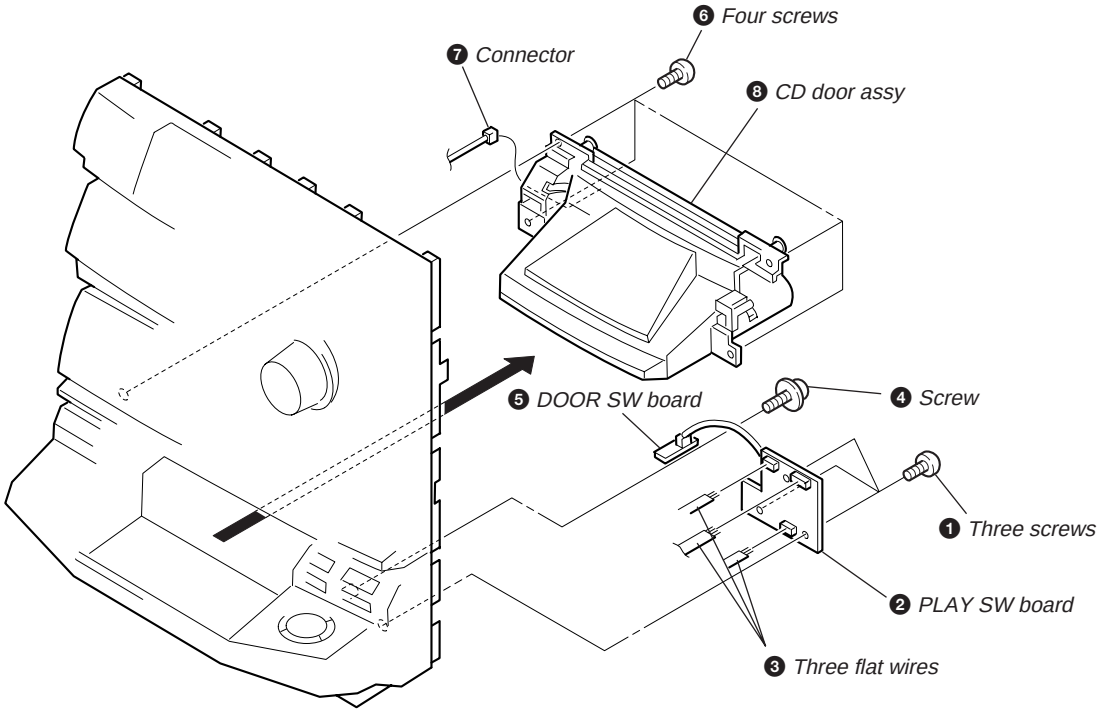
2-6. TAPE MECHANISM DECK



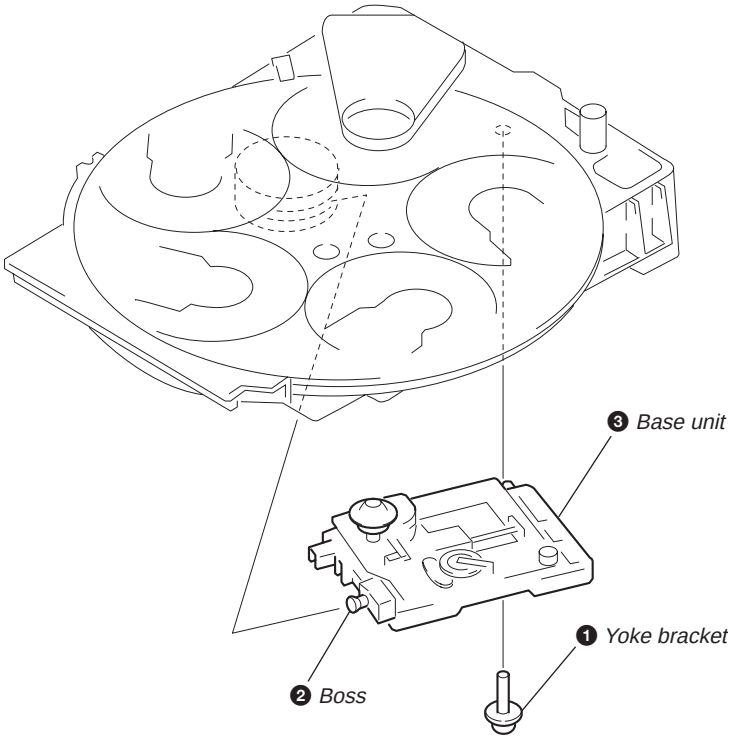
2-7. CASSETTE DOOR



2-8. CD DOOR ASSY

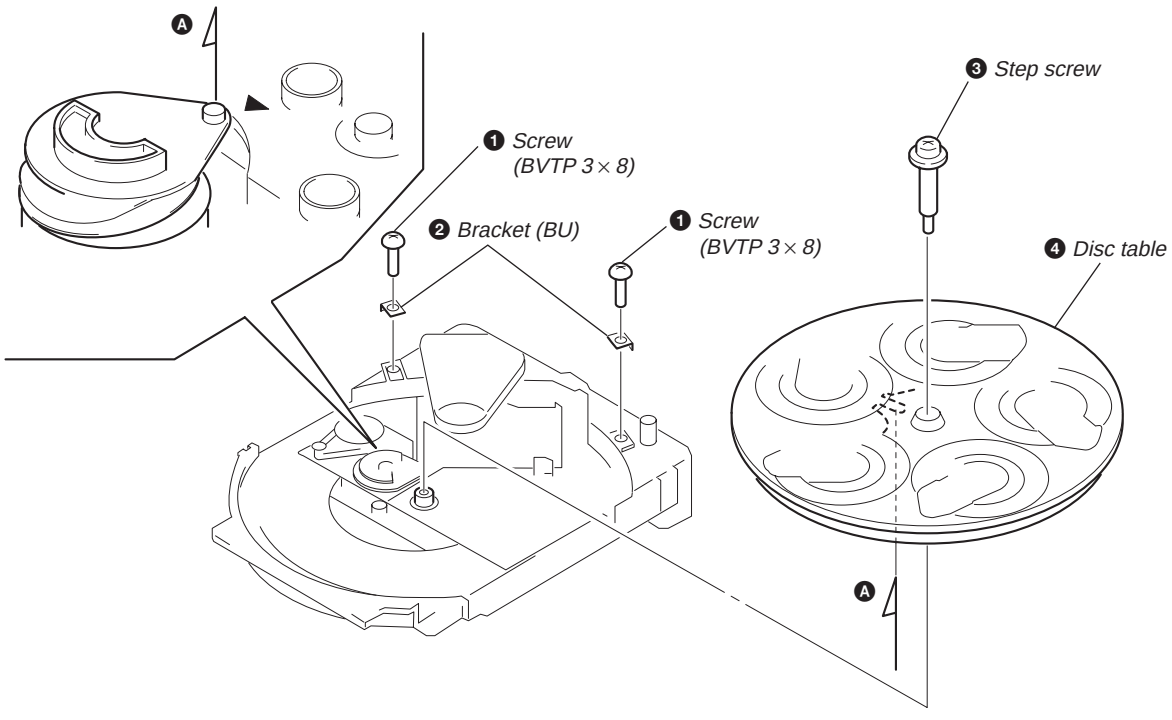


2-9. BASE UNIT



2-10. DISC TABLE

Note:
When the disc table is installed, adjust the positions of roller cam and mark ▶ as shown in the figure, then set to the groove of disc table.



SECTION 3
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   record/playback head — pinch rollers
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	CQ-102C	40 to 70 g • cm (0.56 - 0.97 oz • inch)
FWD back tension	CQ-102C	1 to 5 g • cm (0.01 - 0.07 oz • inch)
FF/REW	CQ-201B	55 to 140 g • cm (0.76 - 1.94 oz • inch)

SECTION 4
ELECTRICAL ADJUSTMENTS

DECK SECTION **0 dB=0.775V**

1. Demagnetize the record/playback head with a head damagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

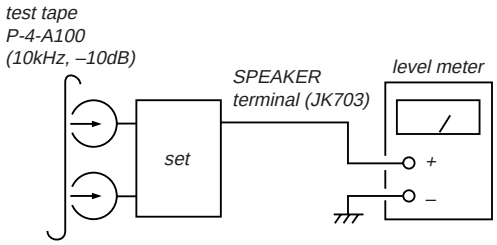
Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

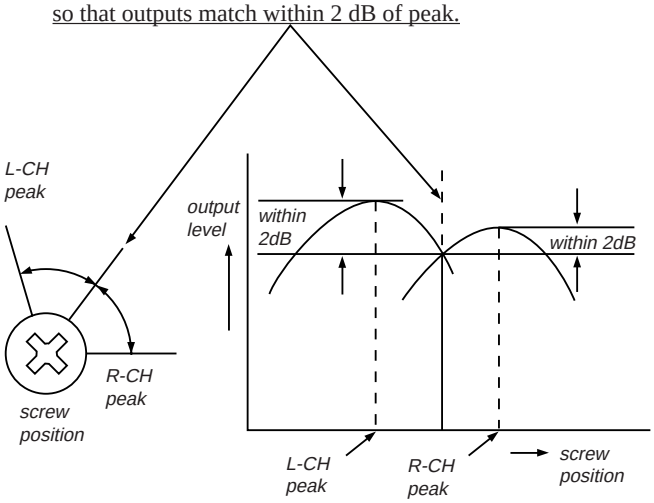
Note: Perform this adjustments for both decks.

Procedure:

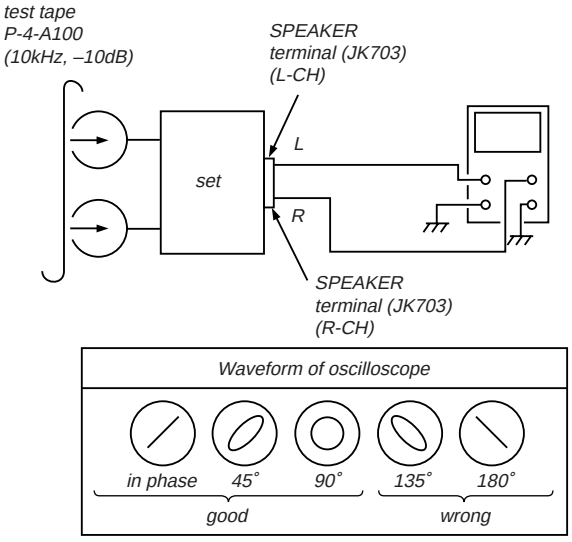
1. Mode : Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 2 dB of peak.

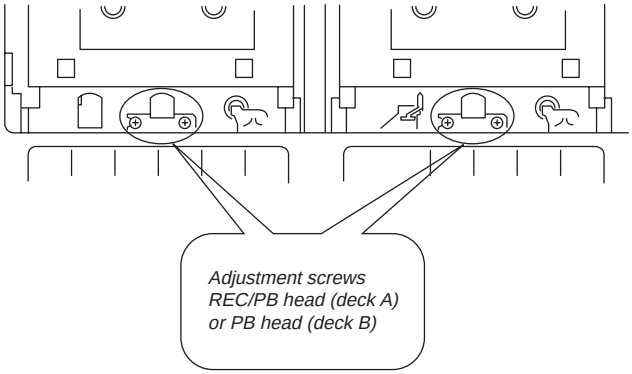


3. Mode: Playback



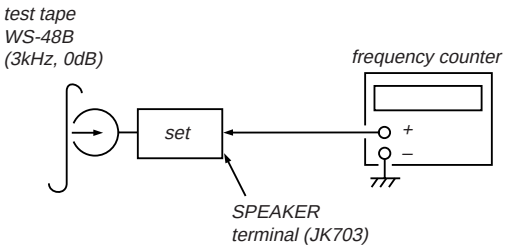
4. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:
Remove the cassette lid before adjustment (See page 9)



Tape Speed Adjustment (Deck A)

Procedure:
1. Mode: Playback



2. Adjust the SFR809 so that the frequency counter reads 3,000 Hz ± 90Hz.

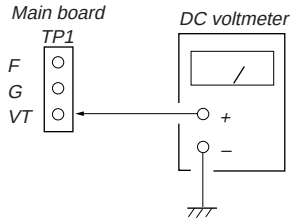
Adjustment Location: MAIN board (See page 14)

Sample Value of Wow and flutter

W. RMS (JIS) within 0.3%
(test tape: WS-48B)

TUNER SECTION **0 dB=1μV**

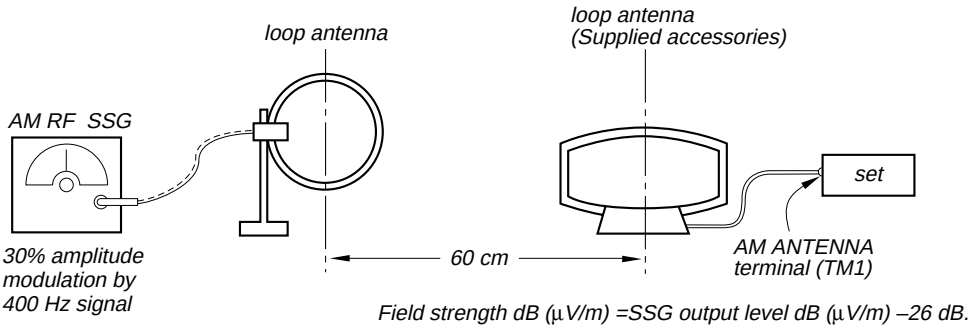
AM Tuning Voltage Adjustment



Procedure:
1. Set the reception frequency of the unit to 530 kHz.
2. Adjust L105 for 1.2 ± 0.05 V reading on the DC voltmeter.
3. Set the reception frequency of the unit to 1,710 kHz.
4. Confirm that the voltage reading on the DC voltmeter is within 8.0 ± 0.5 V.

Adjustment Location: MAIN board (See page 14)

AM Tracking Adjustment



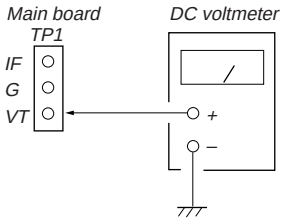
Field strength dB (μV/m) =SSG output level dB (μV/m) –26 dB.

Procedure:
1. Tune the set to 600 kHz.
2. Set the output of AM RF SSG so that the input level of the set will become 60 dB (μV/m).
3. Adjust L104 so that when the waveform on the oscilloscope is maximum, no noise appears.
4. Tune the set to 1,400 kHz.
5. Adjust TC102 so that when the waveform on the oscilloscope is maximum, no noise appears.

• Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

Adjustment Location: MAIN board (See page 14)

FM Tuning Voltage Adjustment (US, Australian, Mexican model)

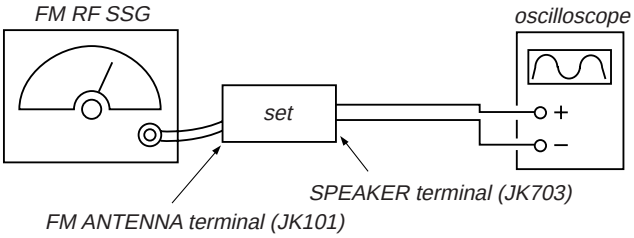


Procedure :
1. Set the reception frequency of the unit to 87.5 MHz.
2. Adjust L103 for 1.2 ± 0.05V reading on the DC voltmeter.
3. Set the reception frequency of the unit to 108 MHz.
4. Confirm that the voltage reading on the DC voltmeter is within 7.8 ± 0.5V.

Adjustment Location: MAIN board (See page 14)

FM Tracking Adjustment (US, Australian, Mexican model)

Procedure:



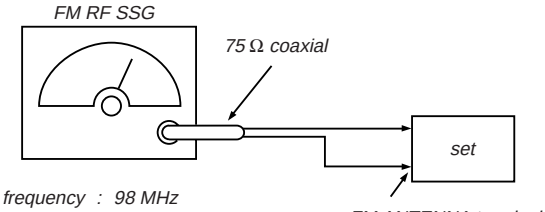
Carrier frequency : 90 MHz, 106 MHz
Modulation : AUDIO 1kHz, 75kHz deviation (100%)
Output level : 20 dB (at 75 Ω open)

1. Tune the set to 90 MHz.
2. Adjust L102 so that when the waveform on the oscilloscope is maximum, no noise appears.
3. Tune the set to 106 MHz.
4. Adjust TC101 so that when the waveform on the oscilloscope is maximum, no noise appears.

• Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitors.

Adjustment Location: MAIN board

FM Tuned Level Adjustment



Carrier frequency : 98 MHz
Modulation : AUDIO 1 kHz, 75 kHz deviation (100%)
Output level : 28 dB (at 75 Ω open)

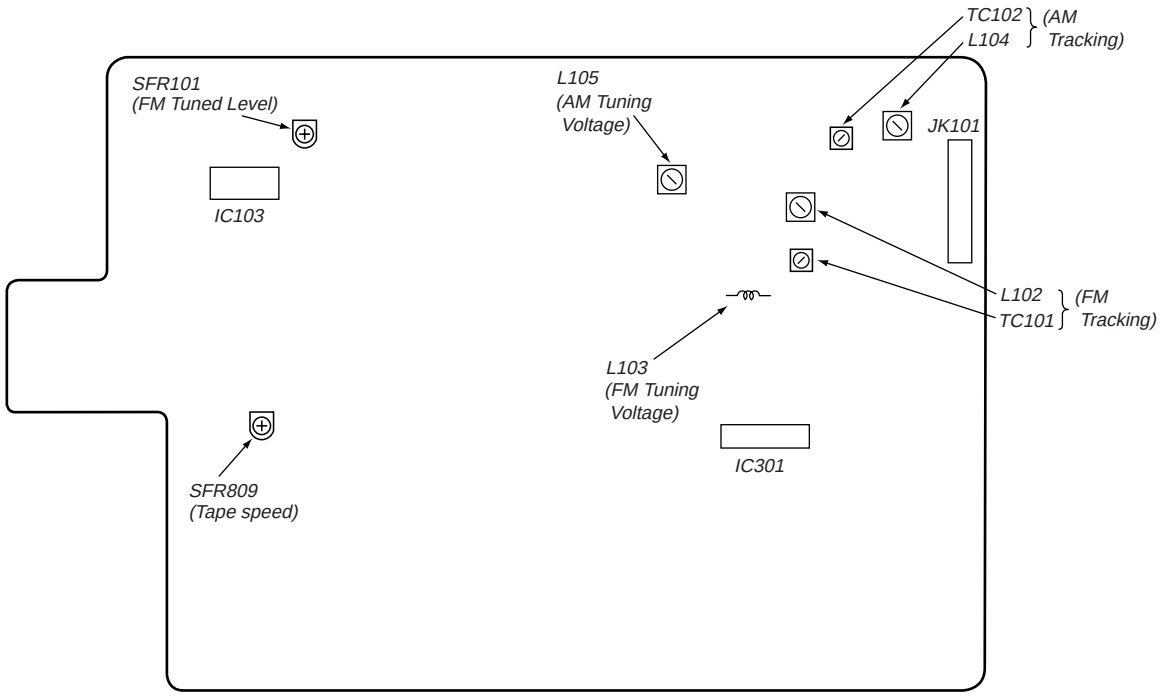
Procedure:

1. Supply a 28 dB 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98 MHz.
3. Adjust SFR101 to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: MAIN board

Adjustment Location

[MAIN BOARD] — Component side —

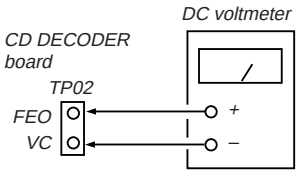


CD SECTION

Note:

1. CD Block is basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Adjust the focus bias adjustment when optical block is replaced.

Focus Bias Adjustment



Procedure:

1. Connect DC voltmeter to test point TP02 on CD DECODER board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and stop.
4. Adjust VR01 so that the DC voltmeter reading is 0 ± 20 mV.

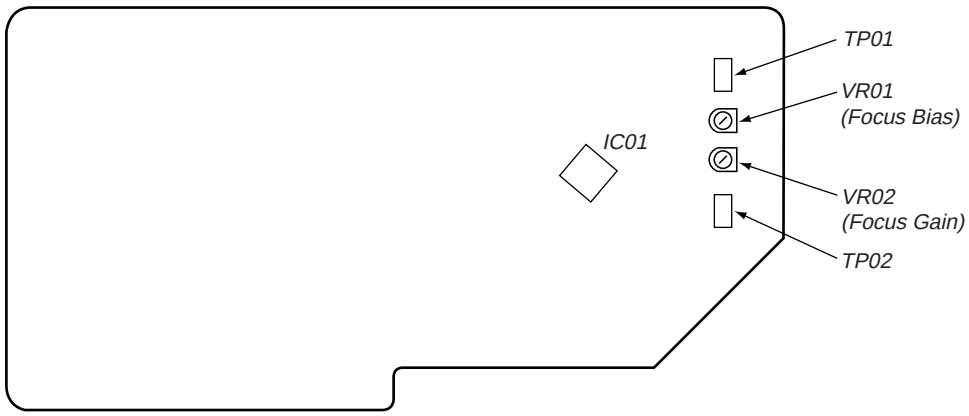
Adjustment Location: CD DECODER board

Focus Gain Adjustment (VR02)

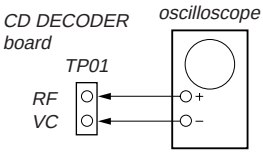
This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Location

[CD DECODER BOARD] — Component side —



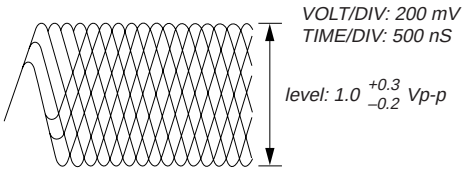
RF Level Check



Procedure :

1. Connect oscilloscope to test point TP01 on CD DECODER board.
2. Turned Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

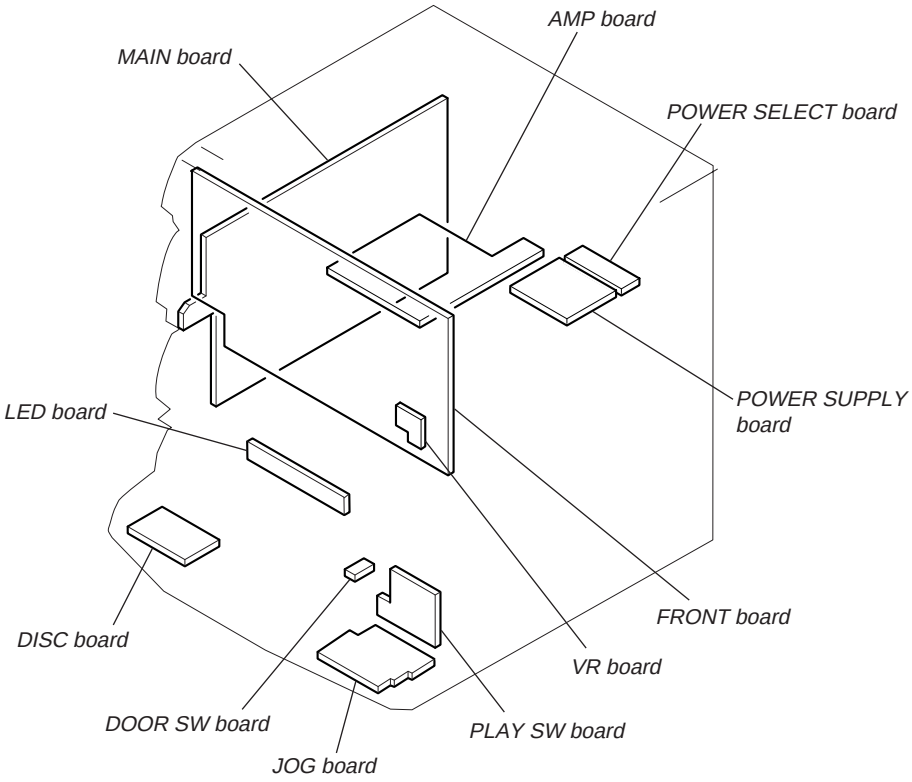
Note: Clear RF signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

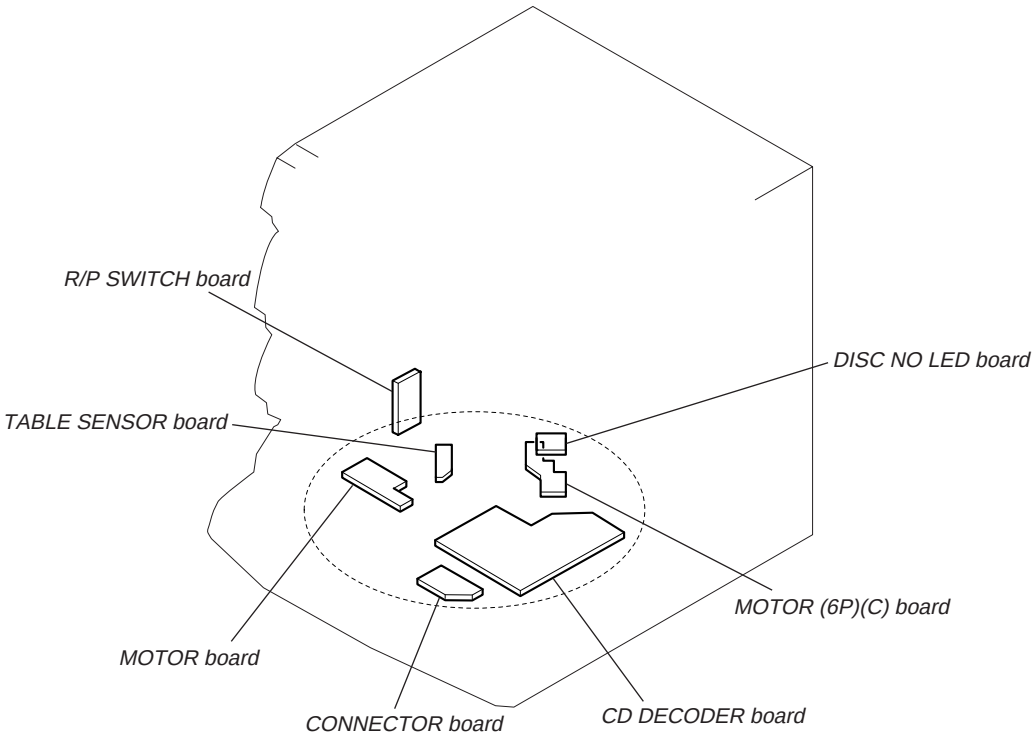


Adjustment Location: CD DECODER board

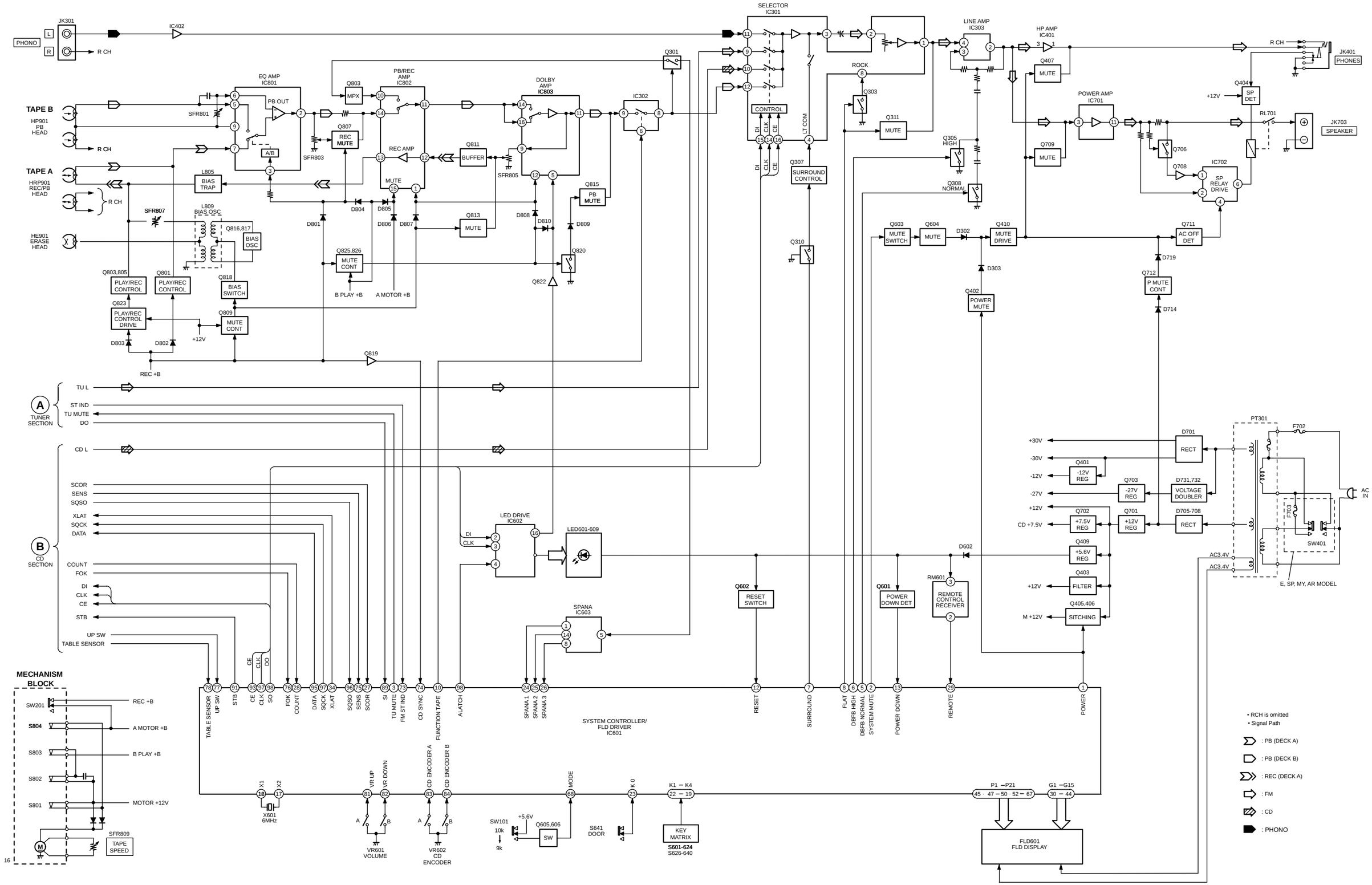
SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION

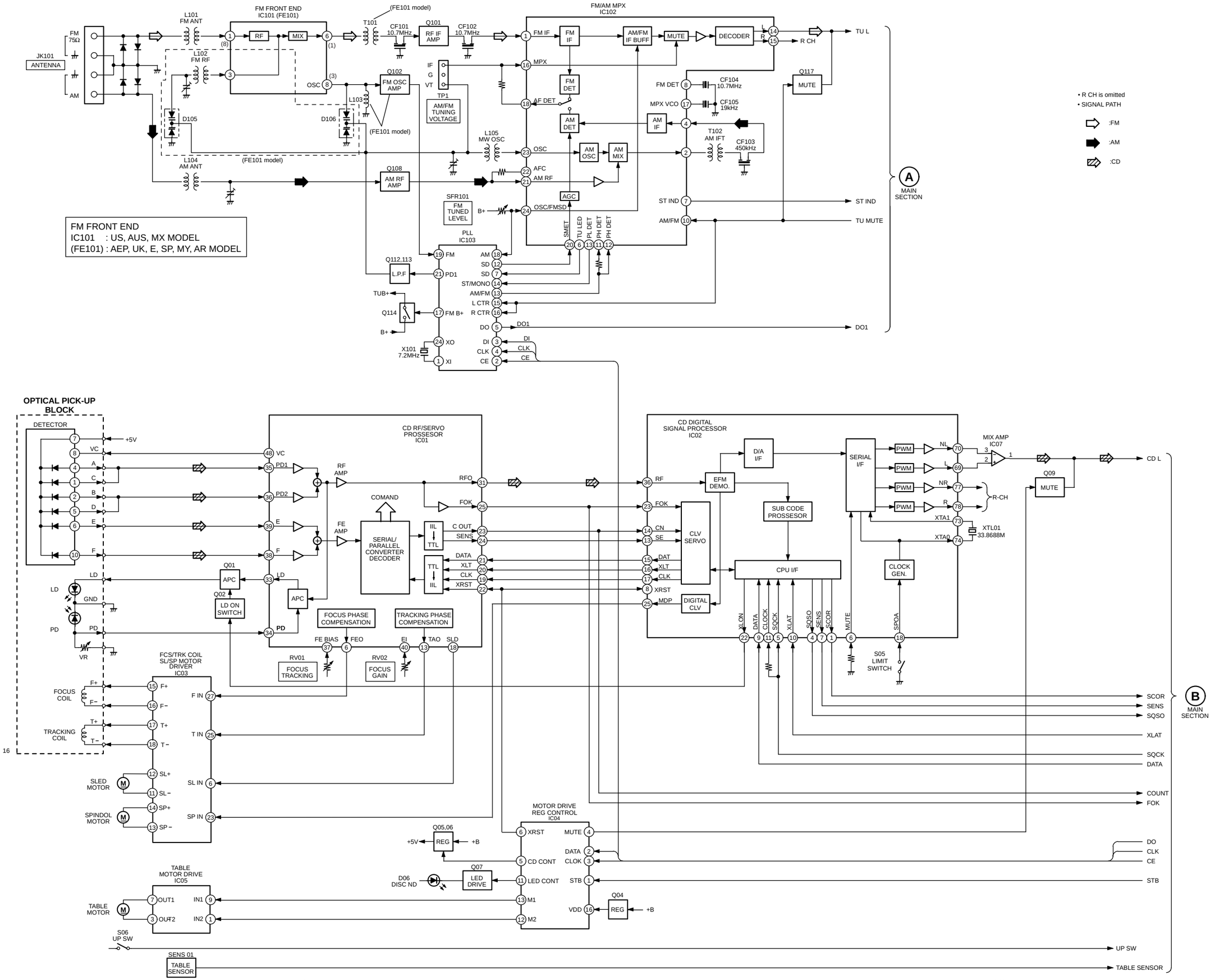




5-2. BLOCK DIAGRAM — DECK SECTION —

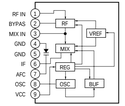


5-3. BLOCK DIAGRAM — TUNER/CD SECTION —

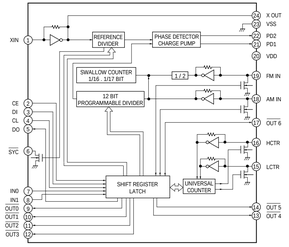


5-15. IC BLOCK DIAGRAMS

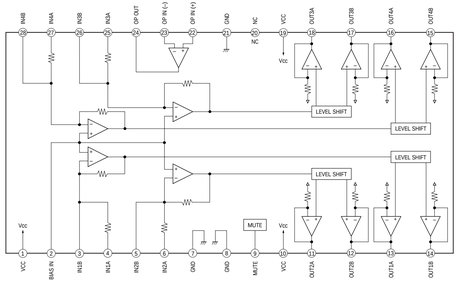
IC101 (MAIN BOARD) LA1186



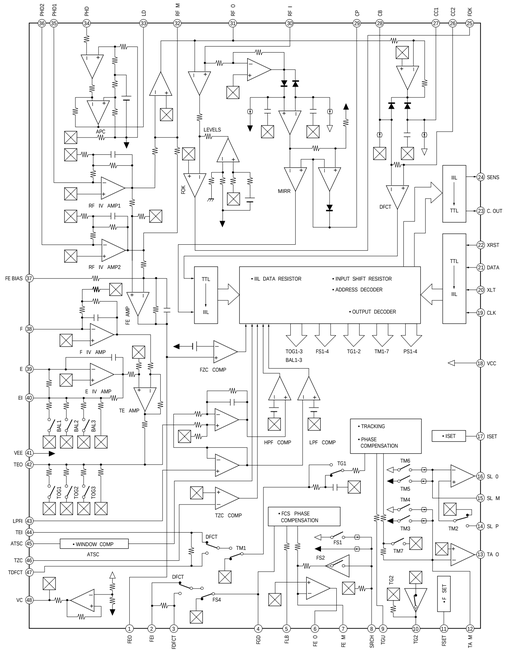
IC103 (MAIN BOARD) LC7218-ST



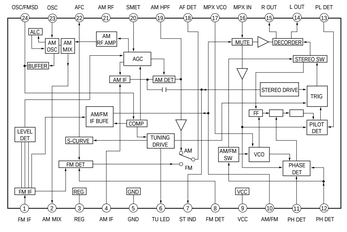
IC03 (MAIN BOARD) BA5941FP



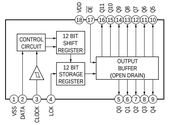
IC01 (CD DECODER BOARD) CXA1782BQ



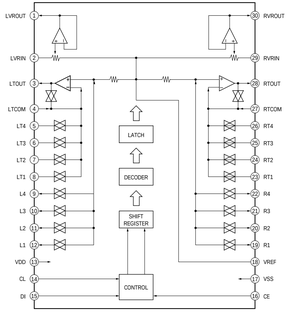
IC102 (MAIN BOARD) LA1831



IC602 (FRONT BOARD) BU2092



IC301 (CD DECODER BOARD) LC75392



5-16. IC PIN FUNCTION DESCRIPTION

IC601 LC866528A-5G83 (FRONT BOARD)

Pin No.	Pin Name	I/O	Description
1	POWER OUT	O	Power on/off output
2	S. MUTE	O	System mute output (ON at H)
3	TU. MUTE OUT	O	Tuner mute output (ON at H)
4	TUNED OUT	O	Tuned output (ON at H)
5	DBDF NORMAL	O	DBDF normal output (ON at H)
6	DBDF HIGH	O	DBDF high output (ON at H)
7	SURROUND OUT	O	Surround output (ON at H)
8	FLAT	O	Preset EQ flat output (ON at H)
9	—	—	Not used
10	FUNCTION TAPE OUT	O	Function tape selector output
11	—	—	Not used
12	RESET	I	Reset input
13	POWER DOWN IN	I	Power down in (AC on at H, AC off at L)
14	—	—	Not used
15	VSS	—	System Vss
16	X'1	I	X'tal oscillator 6.0 MHz
17	X'2	I	X'tal oscillator 6.0 MHz
18	VDD1	—	System VDD 1
19	K4	I	Key input 4
20	K3	I	Key input 3
21	K2	I	Key input 2
22	K1	I	Key input 1
23	K0	I	Key input 0
24	SPEANA IN 1	I	Spectrum analyzer 1
25	SPEANA IN 2	I	Spectrum analyzer 2
26	SPEANA IN 3	I	Spectrum analyzer 3
27	CXD 2508A SCOR	I	CXD 2508A SCOR input
28	COUNT	I	CXD 2508A COUNT input
29	REMOTE IN	I	Remote in
30	1G	O	FLD digital output 1
31	2G	O	FLD digital output 2
32	3G	O	FLD digital output 3
33	4G	O	FLD digital output 4
34	5G	O	FLD digital output 5
35	6G	O	FLD digital output 6
36	7G	O	FLD digital output 7
37	8G	O	FLD digital output 8
38	9G	O	FLD digital output 9
39	10G	O	FLD digital output 10
40	11G	O	FLD digital output 11
41	12G	O	FLD digital output 12
42	13G	O	FLD digital output 13
43	14G	O	FLD digital output 14
44	15G	O	FLD digital output 15
45	P1	O	FLD segment output 1
46	VDD	—	FLD VDD
47	P2	O	FLD segment output 2
48	P3	O	FLD segment output 3
49	P4	O	FLD segment output 4
50	P5	O	FLD segment output 5

Pin No.	Pin Name	I/O	Description
51	–VPP	—	FLD VDD
52	P6	O	FLD segment output 6
53	P7	O	FLD segment output 7
54	P8	O	FLD segment output 8
55	P9	O	FLD segment output 9
56	P10	O	FLD segment output 10
57	P11	O	FLD segment output 11
58	P12	O	FLD segment output 12
59	P13	O	FLD segment output 13
60	P14	O	FLD segment output 14
61	P15	O	FLD segment output 15
62	P16	O	FLD segment output 16
63	P17	O	FLD segment output 17
64	P18	O	FLD segment output 18
65	P19	O	FLD segment output 19
66	P20	O	FLD segment output 20
67	P21	O	FLD segment output 21
68	MODE SW IN	I	Destination selector switch input
69	—	—	Not used
70	—	—	Not used
71	—	—	Not used
72	VDD	—	FLD VDD
73	FM ST IN	I	FM stereo indicator input
74	CD SYNCHRO IN	I	CD Synchro start input
75	CXD2508A SENS	I	CXD 2508A SENS input
76	FOK	I	CXD 2508A FOK input
77	UP SWITCH	I	Changer mechanism UP switch input
78	TABLE SENSOR	I	Table sensor switch input
79	CD DOOR SWITCH	I	CD door switch input
80	—	—	Not used
81	VR +	I	VR encorder (+) input
82	VR –	I	VR encorder (–) input
83	CD ENCORDER IN A	I	CD encorder input A
84	CD ENCORDER IN B	I	CD encorder input B
85	—	—	Not used
86	—	—	Not used
87	BU2114 LATCH	O	BU2114 LATCH output
88	BU2092 LOCK LATCH	O	BU2092 LATCH output
89	VSS2	—	System Vss 2
90	VDD2	—	System VDD 2
91	HC4094 STB	O	SN74HC4094 STB output
92	LV1030 ENABLE	—	LV1030 enable
93	7218, 75392 STB	O	LC7218, LC75392 STB output
94	CXD2508A XLAT	O	CXD 2508 A XLAT output
95	CXD2508A DATA	O	CXD 2508 A out A output
96	SQSO	O	SQSO output
97	SQCK,CLOK	O	SQCK clock output
98	SQ	O	Serial data output
99	SI	I	Serial data input
100	SCK	O	Serial clock output

SECTION 6
EXPLODED VIEWS

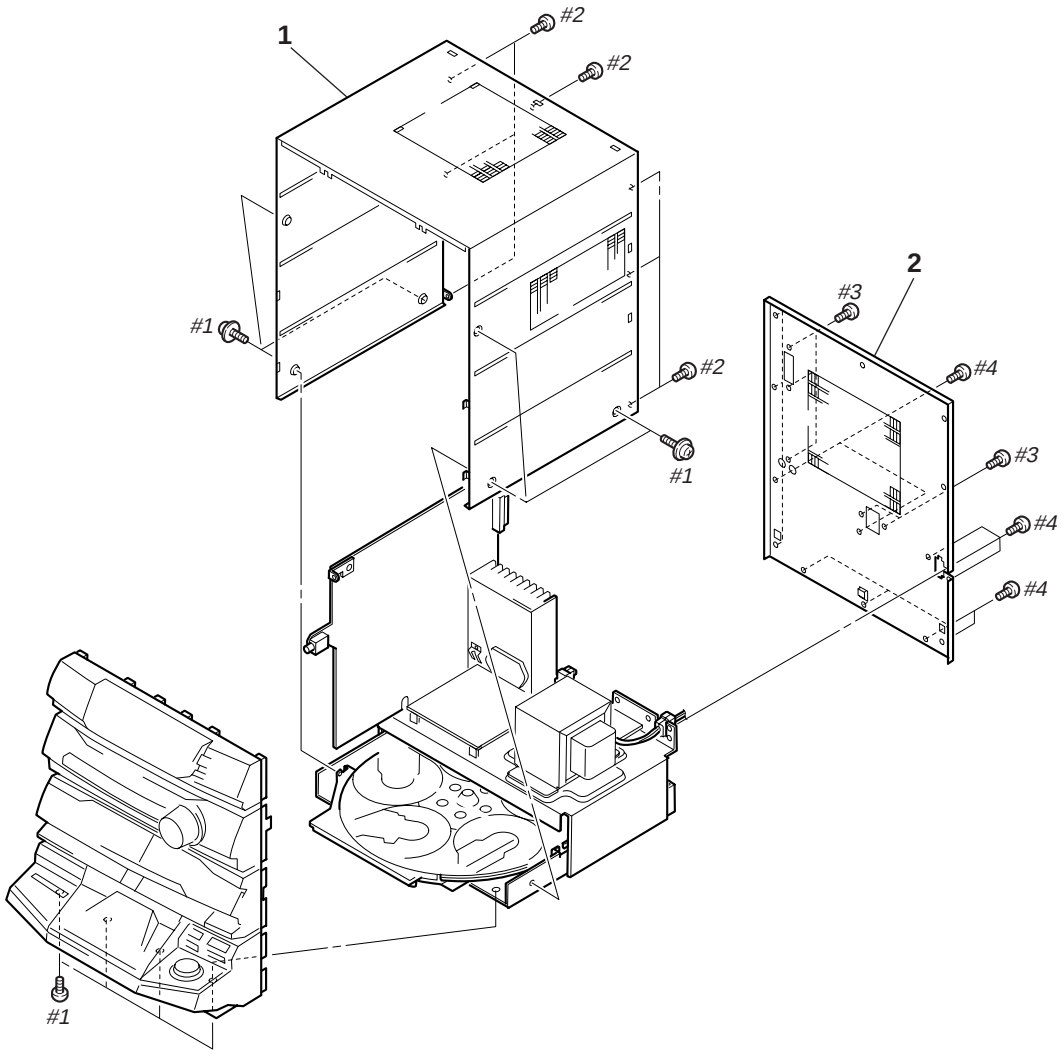
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

  AUS : Australian SP : Singapore
  MX : Mexican MY : Malaysia
  AR : Argentine

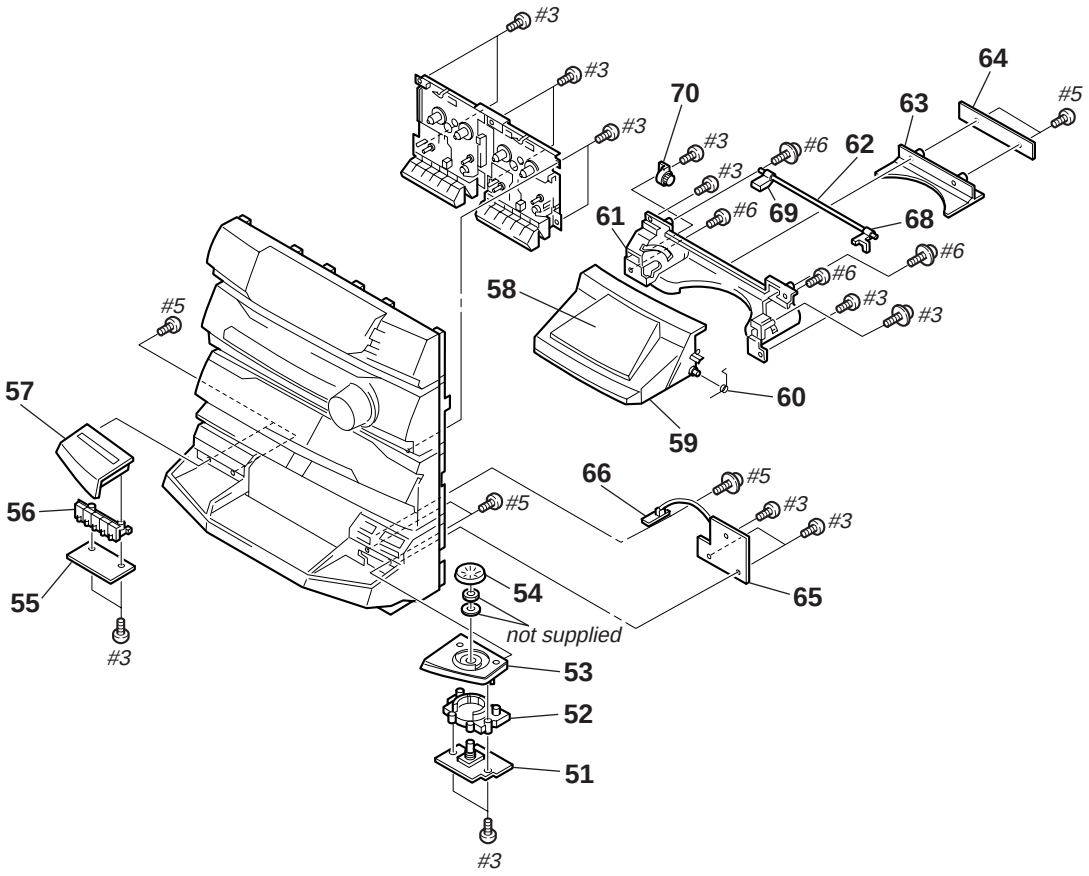
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

6-1. TOP COVER SECTION



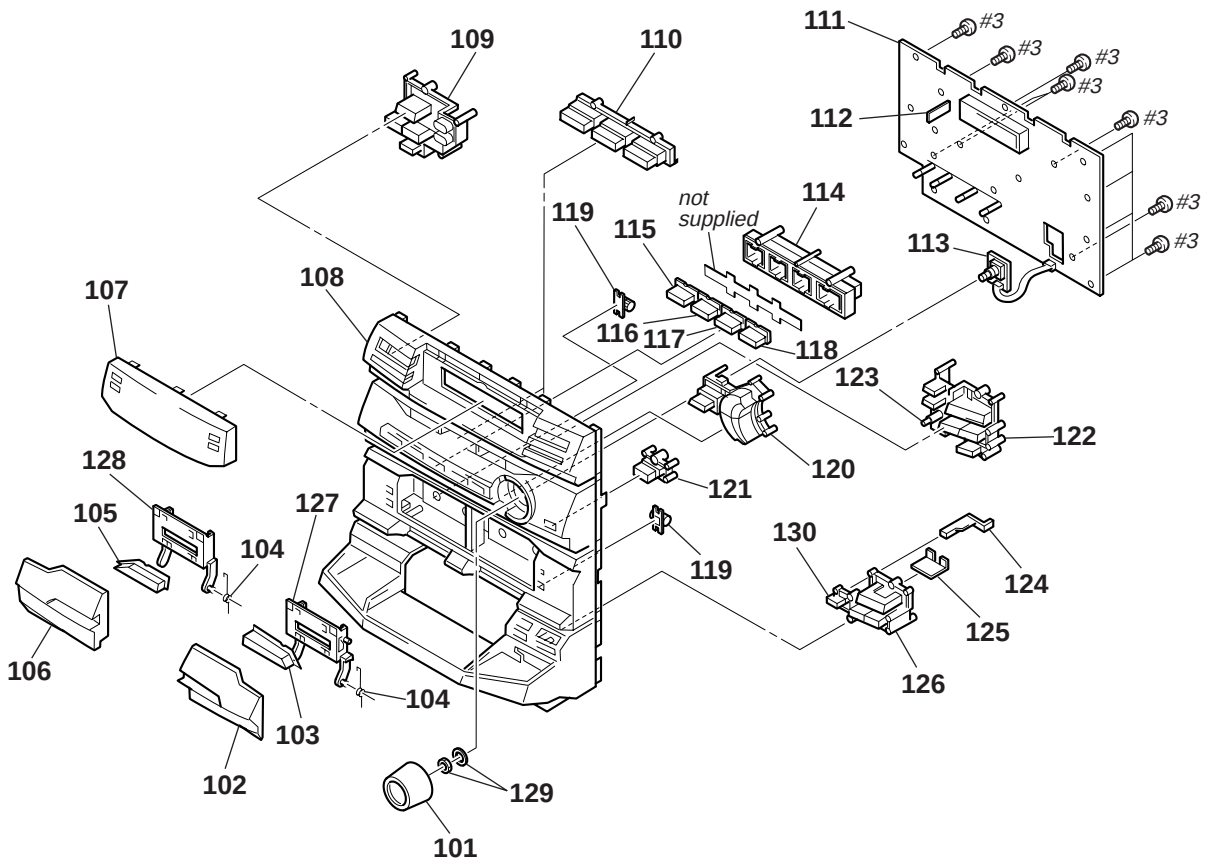
Ref. No.	Part No.	Description	Remarks
1	4-211-479-01	COVER, TOP (G2500)	
1	4-211-556-01	COVER, TOP (XB22,XB20)	
* 2	4-211-482-01	PANEL, REAR (G2500)	
* 2	4-211-559-01	PANEL, REAR (XB20)	
* 2	4-211-574-01	PANEL, REAR (XB22:E,SP,MY,AR)	
* 2	4-211-575-01	PANEL, REAR (XB22:MX)	
* 2	4-211-577-01	PANEL, REAR (XB22:AUS)	

6-2. CD DOOR SECTION



Ref. No.	Part No.	Description	Remarks
* 51	1-670-947-11	JOG BOARD	
52	4-211-523-01	BUTTON, EDIT (G2500)	
52	4-211-570-01	BUTTON, EDIT (XB22,XB20)	
53	4-211-522-01	PANEL, AMS (G2500)	
53	4-211-569-01	PANEL, AMS (XB22,XB20)	
54	4-211-481-01	KNOB, AMS (G2500)	
54	4-211-558-01	KNOB, AMS (XB22,XB20)	
* 55	1-670-945-11	DISC BOARD	
56	4-211-525-01	BUTTON, DISC SELECT (G2500)	
56	4-211-572-01	BUTTON, DISC SELECT (XB22,XB20)	
57	4-211-524-01	PANEL, DISC (G2500)	
57	4-211-571-01	PANEL, DISC (XB22,XB20)	
58	4-211-527-01	WINDOW, CD	
59	4-211-526-01	DOOR, CD (G2500)	
59	4-211-573-01	DOOR, CD (XB22,XB20)	
60	4-211-917-01	SPRING, CD EJECT	
* 61	4-211-921-01	CHASSIS, CD DOOR	
62	4-211-919-01	SHAFT, STOPPER	
63	4-211-914-01	LENS, CD DOOR	
* 64	1-670-950-11	LED BOARD (XB22:AUS,MX,G2500)	
* 64	1-671-475-11	LED BOARD (XB22:E,SP,MY,AR,XB20)	
* 65	1-670-946-11	PLAY SW BOARD	
* 66	1-670-948-11	DOOR SW BOARD	
68	4-211-915-01	STOPPER (R), CD DOOR	
69	4-211-916-01	STOPPER (L), CD DOOR	
70	4-211-920-01	DAMPER (PG-5), GEAR	

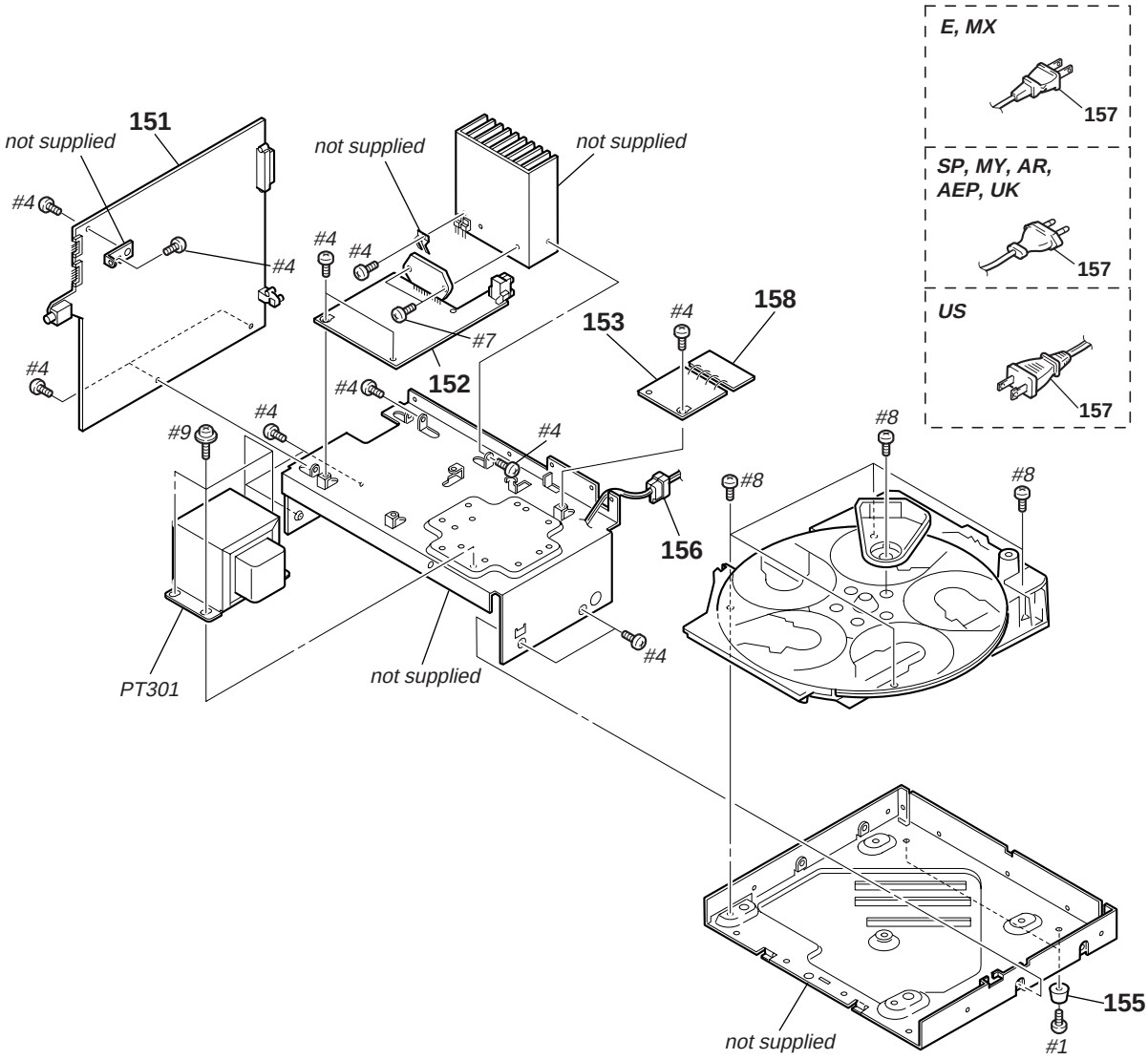
6-3. PANEL SECTION



Ref. No.	Part No.	Description	Remarks
101	4-211-480-01	KNOB, VOLUME (G2500)	
101	4-211-557-01	KNOB, VOLUME (XB22,XB20)	
102	4-211-475-01	DOOR (R), CASSETTE (G2500)	
102	4-211-554-01	DOOR (R), CASSETTE (XB22,XB20)	
103	4-211-477-01	WINDOW (R), CASSETTE	
104	4-211-510-01	SPRING, DOOR	
105	4-211-478-01	WINDOW (L), CASSETTE	
106	4-211-476-01	DOOR (L), CASSETTE (G2500)	
106	4-211-555-01	DOOR (L), CASSETTE (XB22,XB20)	
107	4-211-474-01	WINDOW, TUNING	
108	4-211-491-01	PANEL, FRONT (G2500)	
108	4-211-561-01	PANEL, FRONT (XB22,XB20)	
109	4-211-505-01	BUTTON, POWER (G2500)	
109	4-211-566-01	BUTTON, POWER (XB22,XB20)	
110	4-211-507-01	BUTTON, FUNCTION (G2500)	
110	4-211-568-01	BUTTON, FUNCTION (XB22,XB20)	
* 111	A-4414-964-A	FRONT BOARD,COMPLETE(G2500)	
* 111	A-4414-976-A	FRONT BOARD,COMPLETE(XB20)	
* 111	A-4414-980-A	FRONT BOARD,COMPLETE(XB22:MX,AR)	
* 111	A-4414-984-A	FRONT BOARD,COMPLETE(XB22:E,AUS,SP,MY)	
* 112	1-670-944-11	SENSOR BOARD	
* 113	1-671-028-11	VR BOARD	

Ref. No.	Part No.	Description	Remarks
114	4-211-508-01	HOLDER, ROCK BUTTON	
115	4-211-498-01	KNOB, ROCK	
116	4-211-499-01	KNOB, POP	
117	4-211-501-01	KNOB, JAZZ	
118	4-211-500-01	KNOB, SALSA	
119	4-992-131-01	DAMPER (GRY), GEAR	
120	4-211-494-01	BUTTON, DBFB (G2500)	
120	4-211-562-01	BUTTON, DBFB (XB22,XB20)	
121	4-211-495-01	BUTTON, DOLBY (G2500)	
121	4-211-563-01	BUTTON, DOLBY (XB22,XB20)	
122	4-211-506-01	BUTTON, TUNNIG (G2500)	
122	4-211-567-01	BUTTON, TUNING (XB22,XB20)	
123	4-211-502-01	LENS, ENTER	
124	4-211-504-01	LENS, CD PAUSE	
125	4-211-503-01	LENS, CD PLAY	
126	4-211-496-01	BUTTON, CD PLAY (G2500)	
126	4-211-564-01	BUTTON, CD PLAY (XB22,XB20)	
127	4-211-492-01	HOLDER (R), DOOR	
128	4-211-493-01	HOLDER (L), DOOR	
129	4-211-490-01	WASHER (9Q), VOLUME	
130	4-211-497-01	BUTTON, OPEN (G2500)	
130	4-211-565-01	BUTTON, OPEN (XB22,XB20)	

6-4. MAIN SECTION

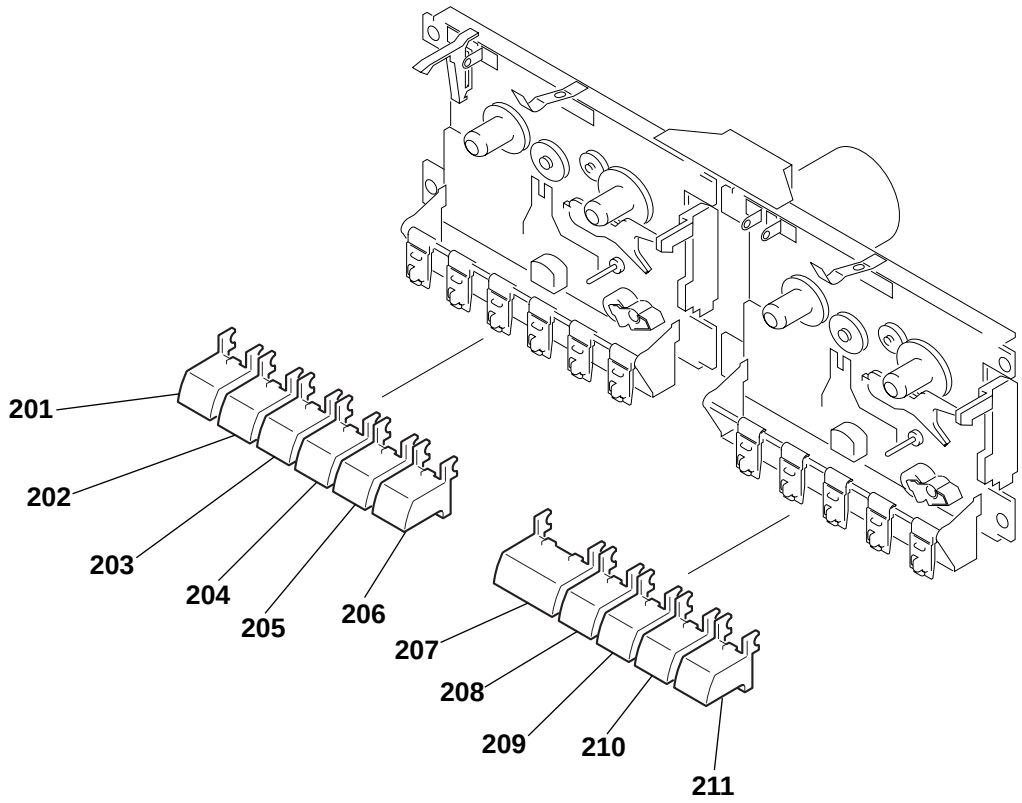


Ref. No.	Part No.	Description	Remarks
* 151	A-4414-973-A	MAIN BOARD, COMPLETE(XB22:MX,G2500)	
* 151	A-4414-978-A	MAIN BOARD, COMPLETE(XB20)	
* 151	A-4414-982-A	MAIN BOARD, COMPLETE(XB22:E,SP,MY,AR)	
* 151	A-4414-986-A	MAIN BOARD, COMPLETE(XB22:AUS)	
* 152	A-4414-989-A	AMP BOARD, COMPLETE (XB22,G2500)	
* 152	A-4414-996-A	AMP BOARD, COMPLETE (XB20)	
* 153	1-670-951-11	POWER SUPPLY BOARD	
155	4-211-483-01	FOOT, PLASTIC	
* 156	3-703-244-00	BUSHING (2104), CORD	
⚠157	1-551-188-99	CORD, POWER (E,MX)	

Ref. No.	Part No.	Description	Remarks
⚠157	1-555-795-00	CORD, POWER, EULO PLUG (SP,MY,AR,AEP)	
⚠157	1-556-035-00	CORD, POWER (UK)	
⚠157	1-559-583-11	CORD, POWER (US)	
* 158	1-670-952-11	POWER SELECT BOARD (XB22:E,SP,MY,AR)	
⚠PT301	1-431-992-11	TRANSFORMER, POWER (US)	
⚠PT301	1-431-993-11	TRANSFORMER, POWER (AEP,UK)	
⚠PT301	1-431-994-11	TRANSFORMER, POWER (E,SP,MY,AR)	
⚠PT301	1-431-995-11	TRANSFORMER, POWER (MX)	
⚠PT301	1-431-996-11	TRANSFORMER, POWER (AUS)	

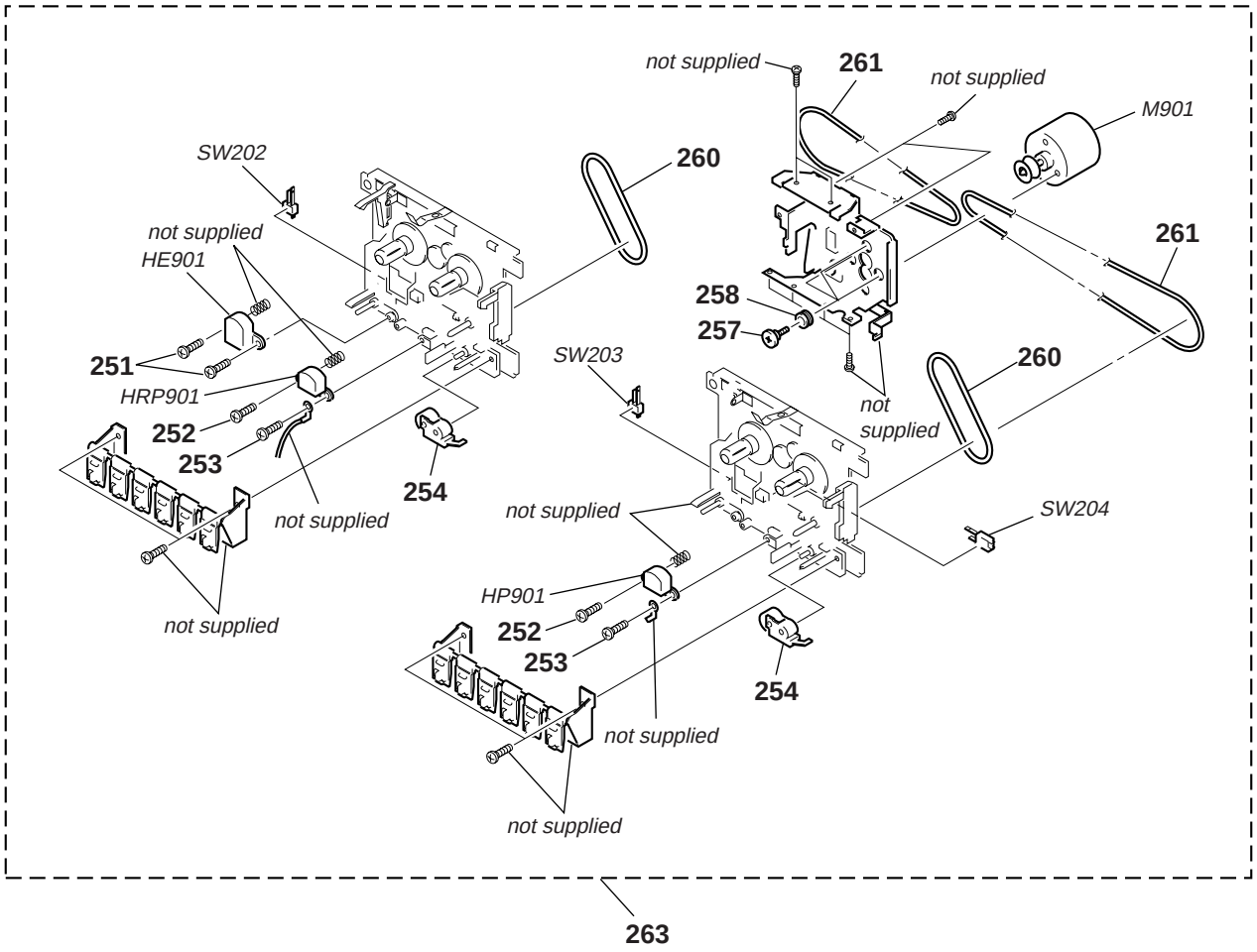
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-5. CASSETTE BUTTON SECTION



Ref. No.	Part No.	Description	Remarks
201	4-211-511-01	BUTTON, REC	
202	4-211-512-01	BUTTON (A), PLAY	
203	4-211-513-01	BUTTON (A), REW	
204	4-211-514-01	BUTTON (A), FF	
205	4-211-515-01	BUTTON (A), STOP	
206	4-211-516-01	BUTTON (A), PAUSE	
207	4-211-517-01	BUTTON (B), PLAY	
208	4-211-518-01	BUTTON (B), REW	
209	4-211-519-01	BUTTON (B), FF	
210	4-211-520-01	BUTTON (B), STOP	
211	4-211-521-01	BUTTON (B), PAUSE	

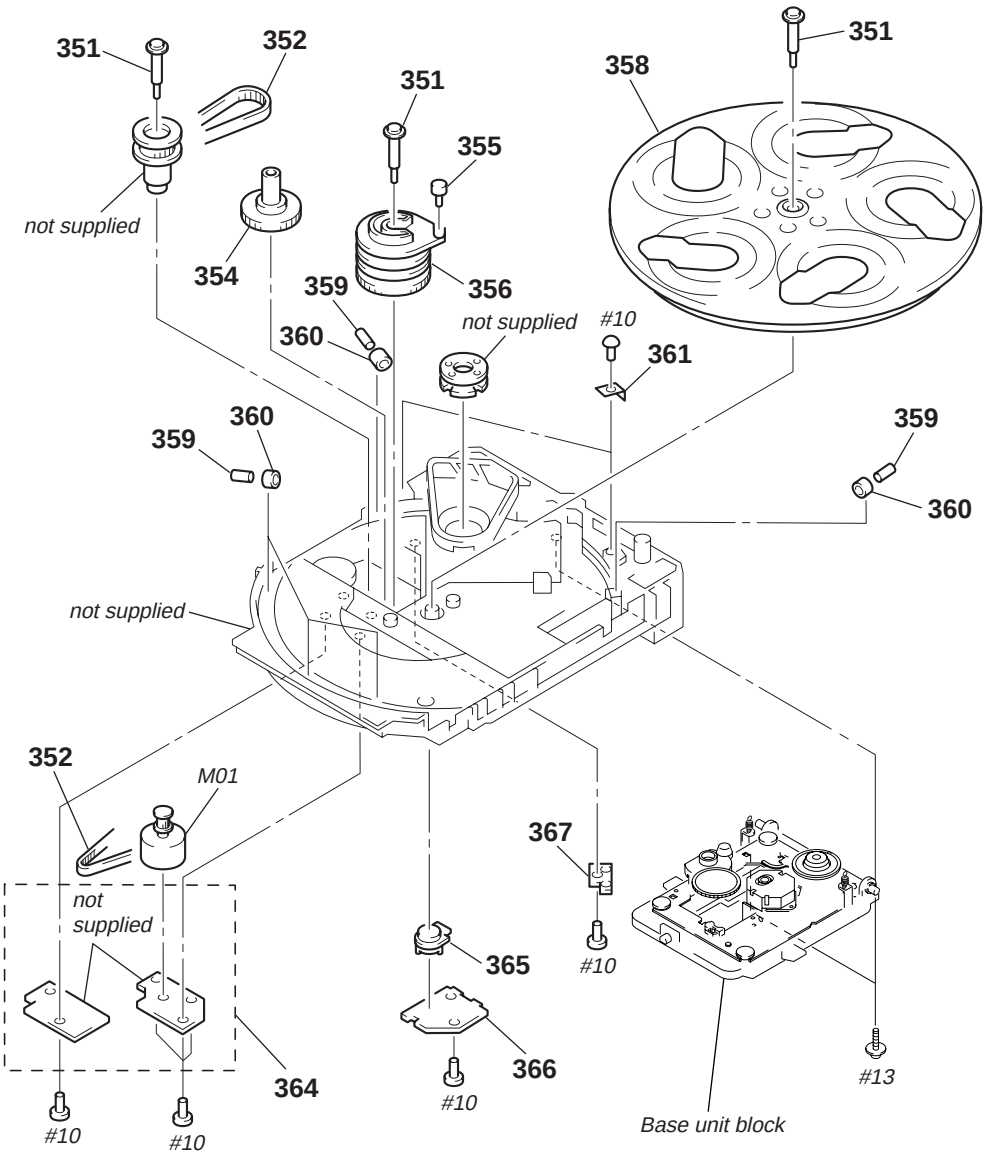
6-6. CASSETTE MECHANISM DECK SECTION (TCK20FX-SW943-800)



Ref. No.	Part No.	Description	Remarks
251	9-980-286-01	CAP SCREW 2 × 7.5	
252	9-980-288-01	A SCREW 2 × 7 (AZIMUTH)	
253	9-980-287-01	B SCREW 2 × 3	
254	9-980-276-01	PINCH ROLLER ARM ASSY	
257	9-980-279-01	SCREW M COLLAR	
258	9-980-278-01	MOTOR RUBBER	
260	9-980-277-01	BELT (W) F	
261	9-980-281-01	BELT M	

Ref. No.	Part No.	Description	Remarks
* 263	1-759-417-11	DECK, MECHANICAL	
HE901	9-980-284-01	E HEAD (ERASE)	
HP901	9-980-282-01	P HEAD (PLAY)	
HRP901	9-980-283-01	RP HEAD (REC/PLAY)	
M901	9-980-285-01	MOTOR (CAPSTAN/REEL)	
SW202	9-980-274-01	LEAF SWITCH (A DECK)	
SW203	9-980-274-01	LEAF SWITCH (B DECK)	
SW204	9-980-275-01	LEAF SWITCH (PLAY)	

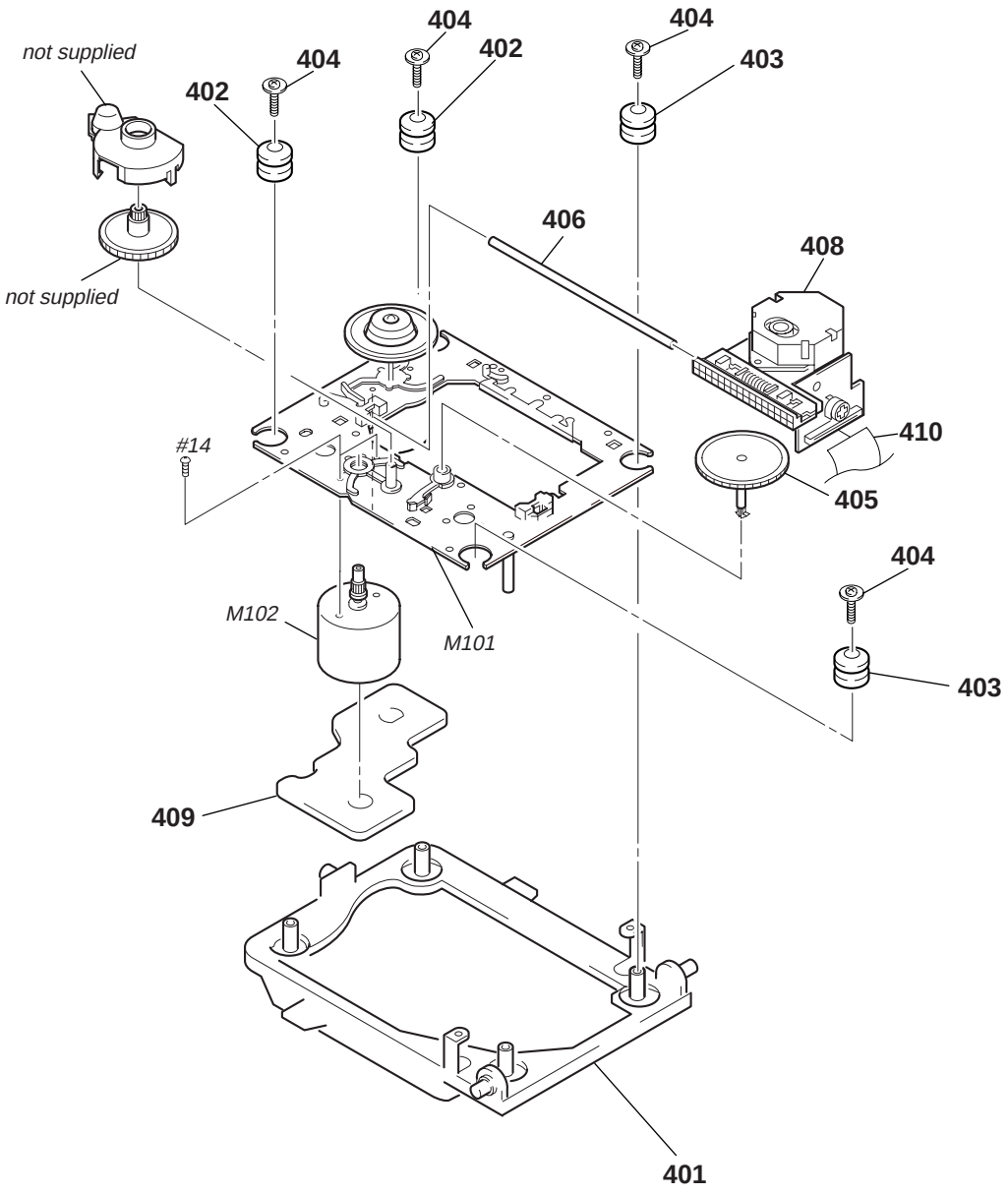
6-7. CD MECHANISM DECK SECTION



Ref. No.	Part No.	Description	Remarks
351	4-987-976-01	SCREW, STEP	
352	4-944-490-01	BELT (TIMING)	
354	4-978-421-01	GEAR (MID)	
355	4-978-425-01	ROLLER (CAM)	
356	4-978-420-01	CAM (HOLDER)	
358	4-978-417-01	TABLE, DISC	
359	4-934-376-01	SHAFT (ROLLER)	

Ref. No.	Part No.	Description	Remarks
* 360	X-4924-457-1	ROLLER ASSY	
* 361	4-978-583-01	BRACKET (BU)	
* 364	1-670-849-11	MOTOR BOARD	
365	4-978-426-01	INDICATOR (NO.)	
* 366	1-670-847-11	DISC NO LED BOARD	
* 367	1-670-846-11	TABLE SENSOR BOARD	
M01	1-541-632-11	MOTOR, DC	

6-8. BASE UNIT SECTION (KSM-213ECM)



Ref. No.	Part No.	Description	Remarks
401	4-992-164-01	BASE, KSM MECHANICAL	
402	4-992-165-01	DAMPER (GREEN)	
403	4-992-166-01	DAMPER (RED)	
404	4-985-672-21	SCREW (+PTPWHM2.6), FLOATING	
405	4-917-565-01	SHAFT, SLED	
406	2-626-908-01	SHAFT, SLED	

Ref. No.	Part No.	Description	Remarks
⚠408	8-848-379-31	OPTICAL PICK-UP KSS-213B/SN	
* 409	1-639-678-12	MOTOR (6P) (C) BOARD	
410	1-783-740-11	WIRE (FLAT TYPE)(16 CORE)	
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)	
M102	X-2625-769-1	MOTOR ASSY (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 7
ELECTRICAL PARTS LIST

AMP

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- Abbreviation
  AUS : Australian SP : Singapore
  MX : Mexican MY : Malaysia
  AR : Argentine
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

Ref. No.	Part No.	Description			Remarks
*	A-4414-989-A	AMP BOARD, COMPLETE (XB22,G2500)			
		**********			
*	A-4414-996-A	AMP BOARD, COMPLETE (XB20)			
		**********			
*	1-533-213-31	HOLDER, FUSE			
		< CAPACITOR >			
C703	1-162-294-31	CERAMIC	0.001uF	10%	50V
C704	1-162-294-31	CERAMIC	0.001uF	10%	50V
C705	1-126-961-11	ELECT	2.2uF	20%	50V
C706	1-126-961-11	ELECT	2.2uF	20%	50V
C707	1-162-286-31	CERAMIC	220PF	10%	50V
C708	1-162-286-31	CERAMIC	220PF	10%	50V
C709	1-126-967-11	ELECT	47uF	20%	16V
C710	1-126-967-11	ELECT	47uF	20%	16V
C713	1-126-967-11	ELECT	47uF	20%	50V
C714	1-126-967-11	ELECT	47uF	20%	50V
C715	1-126-964-11	ELECT	10uF	20%	50V
C717	1-128-576-11	ELECT	100uF	20%	63V
C719	1-137-393-11	FILM	0.01uF	5%	100V
C720	1-137-393-11	FILM	0.01uF	5%	100V
C721	1-137-399-11	FILM	0.1uF	5%	100V
C722	1-137-399-11	FILM	0.1uF	5%	100V
C723	1-126-961-11	ELECT	2.2uF	20%	50V
C724	1-137-393-11	FILM	0.01uF	5%	100V
C725	1-126-235-11	ELECT	100uF	20%	16V
C726	1-126-933-11	ELECT	100uF	20%	16V
C730	1-126-963-11	ELECT	4.7uF	20%	50V
C733	1-161-494-00	CERAMIC	0.022uF		25V (XB20)
C734	1-161-494-00	CERAMIC	0.022uF		25V (XB20)
C735	1-162-199-31	CERAMIC	10PF	5%	50V
C736	1-162-199-31	CERAMIC	10PF	5%	50V
C741	1-104-482-11	ELECT	4700uF	20%	63V
C742	1-104-482-11	ELECT	4700uF	20%	63V
C743	1-136-601-11	FILM	0.01uF	5%	630V
C744	1-136-601-11	FILM	0.01uF	5%	630V
C745	1-136-601-11	FILM	0.01uF	5%	630V
C746	1-136-601-11	FILM	0.01uF	5%	630V
C747	1-161-494-00	CERAMIC	0.022uF		25V
C748	1-161-494-00	CERAMIC	0.022uF		25V
C749	1-161-494-00	CERAMIC	0.022uF		25V
C750	1-161-494-00	CERAMIC	0.022uF		25V
C751	1-126-943-11	ELECT	2200uF	20%	25V
C752	1-126-933-11	ELECT	100uF	20%	16V
C753	1-161-494-00	CERAMIC	0.022uF		25V
C754	1-161-494-00	CERAMIC	0.022uF		25V
C755	1-161-494-00	CERAMIC	0.022uF		25V
C756	1-126-948-11	ELECT	100uF	20%	35V
C757	1-161-494-00	CERAMIC	0.022uF		25V
C758	1-126-949-11	ELECT	220uF	20%	35V
C759	1-161-494-00	CERAMIC	0.022uF		25V
C760	1-126-933-11	ELECT	100uF	20%	16V
C761	1-161-494-00	CERAMIC	0.022uF		25V
C762	1-126-935-11	ELECT	470uF	20%	16V
C763	1-161-494-00	CERAMIC	0.022uF		25V
C768	1-161-494-00	CERAMIC	0.022uF		25V
C770	1-126-961-11	ELECT	2.2uF	20%	50V
C771	1-126-962-11	ELECT	3.3uF	20%	50V
C780	1-126-934-11	ELECT	220uF	20%	16V
C785	1-161-494-00	CERAMIC	0.022uF		25V
		< CONNECTOR >			
CN703	1-564-510-11	PLUG, CONNECTOR 7P			
		< DIODE >			
D701	8-719-027-23	DIODE GBU6D			
D705	8-719-031-85	DIODE 1N4002L			
D706	8-719-031-85	DIODE 1N4002L			
D707	8-719-031-85	DIODE 1N4002L			
D708	8-719-031-85	DIODE 1N4002L			
D711	8-719-921-40	DIODE MTZJ-4.7C			
D712	8-719-110-88	DIODE RD39ES-B2			
D713	8-719-982-26	DIODE MTZJ-33B			
D714	8-719-031-85	DIODE 1N4002L			
D715	8-719-991-33	DIODE 1SS133T-77			
D716	8-719-991-33	DIODE 1SS133T-77			
D717	8-719-991-33	DIODE 1SS133T-77			
D718	8-719-991-33	DIODE 1SS133T-77			
D719	8-719-991-33	DIODE 1SS133T-77			
		< FUSE >			
⚠F701	1-532-388-31	FUSE TIME LAG 2A/250V (XB22:AUS,XB20)			
⚠F701	1-576-104-11	FUSE TIME LAG 2A/250V (XB22:MX,G2500)			
		< IC >			
IC701	8-749-920-90	IC STK-4201MK2			
IC702	8-759-111-68	IC UPC1237HA			
		< JACK >			
JK703	1-694-443-11	TERMINAL BOARD (SPEAKER)			
		< COIL >			
L703	1-420-872-00	COIL, AIR-CORE (XB20)			
L704	1-420-872-00	COIL, AIR-CORE (XB20)			

AMP | CD DECODER

Ref. No.	Part No.	Description				Remarks
		< TRANSISTOR >				
Q701	8-729-188-23	TRANSISTOR	2SD882-P			
Q702	8-729-188-23	TRANSISTOR	2SD882-P			
Q703	8-729-232-32	TRANSISTOR	2SA965			
Q706	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q707	8-729-184-53	TRANSISTOR	2SC1845-EA			
Q708	8-729-184-53	TRANSISTOR	2SC1845-EA			
Q709	8-729-231-55	TRANSISTOR	2SC2878-AB			
Q710	8-729-231-55	TRANSISTOR	2SC2878-AB			
Q711	8-729-029-86	TRANSISTOR	DTC124ESA			
Q712	8-729-029-86	TRANSISTOR	DTC124ESA			
		< RESISTOR >				
R703	1-247-839-11	CARBON	2.2K	5%	1/4W	
R704	1-247-839-11	CARBON	2.2K	5%	1/4W	
R705	1-249-438-11	CARBON	56K	5%	1/4W	
R706	1-249-438-11	CARBON	56K	5%	1/4W	
R707	1-249-466-11	CARBON	56K	5%	1/4W	
R708	1-249-466-11	CARBON	56K	5%	1/4W	
R709	1-247-711-11	CARBON	680	5%	1/4W	F
R710	1-247-711-11	CARBON	680	5%	1/4W	F
R711	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R712	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R713	1-249-405-11	CARBON	100	5%	1/4W	F
R714	1-249-405-11	CARBON	100	5%	1/4W	F
R715	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R716	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R717	1-247-713-11	CARBON	1K	5%	1/4W	F
R718	1-247-713-11	CARBON	1K	5%	1/4W	F
R719	1-247-887-00	CARBON	220K	5%	1/4W	
R720	1-247-887-00	CARBON	220K	5%	1/4W	
R721	1-247-713-11	CARBON	1K	5%	1/4W	F
R722	1-249-417-11	CARBON	1K	5%	1/4W	F
R723	1-220-755-11	METAL	0.22	10%	2W	
R724	1-220-755-11	METAL	0.22	10%	2W	
R725	1-249-431-11	CARBON	15K	5%	1/4W	
R726	1-249-431-11	CARBON	15K	5%	1/4W	
R727	1-249-459-11	CARBON	12K	5%	1/4W	
R728	1-249-459-11	CARBON	12K	5%	1/4W	
R729	1-247-717-11	CARBON	2.2K	5%	1/4W	F
R730	1-247-871-11	CARBON	47K	5%	1/4W	
R731	1-247-887-00	CARBON	220K	5%	1/4W	
R732	1-247-713-11	CARBON	1K	5%	1/4W	F
R733	1-249-438-11	CARBON	56K	5%	1/4W	
R734	1-247-721-11	CARBON	4.7K	5%	1/4W	F
R735	1-212-958-00	FUSIBLE	10	5%	1/2W	F
R736	1-212-958-00	FUSIBLE	10	5%	1/2W	F
R737	1-260-064-11	CARBON	1	5%	1/2W (XB20)	
R738	1-260-064-11	CARBON	1	5%	1/2W (XB20)	
R739	1-247-839-11	CARBON	2.2K	5%	1/4W	
R741	1-213-036-11	FUSIBLE	1	5%	1W	F
R742	1-247-708-11	CARBON	470	5%	1/4W	F
R743	1-247-714-11	CARBON	1.2K	5%	1/4W	F
R744	1-247-708-11	CARBON	470	5%	1/4W	F
R747	1-247-725-11	CARBON	10K	5%	1/4W	F
R748	1-247-855-11	CARBON	10K	5%	1/4W	
R751	1-213-076-11	FUSIBLE	47	5%	1W	F
R755	1-247-843-11	CARBON	3.3K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
		< RELAY >				
RL701	1-515-921-11	RELAY (12V)				
**********						
*	A-4414-990-A	CD DECODER BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C3	1-164-159-11	CERAMIC	0.1uF		50V	
C4	1-136-153-00	FILM	0.01uF	5%	50V	
C01	1-104-665-11	ELECT	100uF	20%	10V	
C02	1-162-201-31	CERAMIC	12PF	5%	50V	
C05	1-136-159-00	FILM	0.033uF	5%	50V	
C06	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C07	1-136-159-00	FILM	0.033uF	5%	50V	
C08	1-161-494-00	CERAMIC	0.022uF		25V	
C09	1-126-959-11	ELECT	0.47uF	20%	50V	
C10	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C11	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C12	1-164-159-11	CERAMIC	0.1uF		50V	
C13	1-104-665-11	ELECT	100uF	20%	10V	
C14	1-162-302-11	CERAMIC	0.0022uF	30%	16V	
C15	1-164-159-11	CERAMIC	0.1uF		50V	
C16	1-136-159-00	FILM	0.033uF	5%	50V	
C17	1-164-159-11	CERAMIC	0.1uF		50V	
C18	1-164-159-11	CERAMIC	0.1uF		50V	
C19	1-126-963-11	ELECT	4.7uF	20%	50V	
C20	1-136-153-00	FILM	0.01uF	5%	50V	
C21	1-162-199-31	CERAMIC	10PF	5%	50V	
C22	1-104-665-11	ELECT	100uF	20%	10V	
C23	1-164-159-11	CERAMIC	0.1uF		50V	
C24	1-126-965-11	ELECT	22uF	20%	50V	
C25	1-161-494-00	CERAMIC	0.022uF		25V	
C26	1-161-494-00	CERAMIC	0.022uF		25V	
C31	1-162-600-11	CERAMIC	0.0047uF	30%	16V	
C32	1-162-301-11	CERAMIC	0.0015uF	30%	16V	
C33	1-162-286-31	CERAMIC	220PF	10%	50V	
C34	1-126-963-11	ELECT	4.7uF	20%	50V	
C35	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C36	1-164-159-11	CERAMIC	0.1uF		50V	
C37	1-104-665-11	ELECT	100uF	20%	10V	
C38	1-164-159-11	CERAMIC	0.1uF		50V	
C39	1-126-964-11	ELECT	10uF	20%	50V	
C40	1-162-215-31	CERAMIC	47PF	5%	50V	
C41	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C42	1-164-159-11	CERAMIC	0.1uF		50V	
C43	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C44	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C45	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C46	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C47	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C51	1-102-947-00	CERAMIC	10PF	5%	50V	
C52	1-102-947-00	CERAMIC	10PF	5%	50V	
C53	1-126-934-11	ELECT	220uF	20%	10V	
C54	1-126-934-11	ELECT	220uF	20%	10V	
C57	1-136-153-00	FILM	0.01uF	5%	50V	
C58	1-164-159-11	CERAMIC	0.1uF		50V	
C59	1-126-926-11	ELECT	1000uF	20%	10V	

Ref. No.	Part No.	Description			Remarks
C60	1-136-154-00	FILM	0.012uF	5%	50V
C61	1-162-284-31	CERAMIC	150PF	10%	50V
C62	1-162-284-31	CERAMIC	150PF	10%	50V
C63	1-162-288-31	CERAMIC	330PF	10%	50V
C64	1-162-288-31	CERAMIC	330PF	10%	50V
C65	1-162-288-31	CERAMIC	330PF	10%	50V
C66	1-162-288-31	CERAMIC	330PF	10%	50V
C67	1-126-959-11	ELECT	0.47uF	20%	50V
C68	1-126-963-11	ELECT	4.7uF	20%	50V
C73	1-162-294-31	CERAMIC	0.001uF	10%	50V
C74	1-162-294-31	CERAMIC	0.001uF	10%	50V
C85	1-126-964-11	ELECT	10uF	20%	50V
C86	1-126-964-11	ELECT	10uF	20%	50V
C90	1-126-934-11	ELECT	220uF	20%	10V
C91	1-126-934-11	ELECT	220uF	20%	10V
C92	1-126-934-11	ELECT	220uF	20%	10V
C93	1-126-934-11	ELECT	220uF	20%	10V
C94	1-126-934-11	ELECT	220uF	20%	10V
C95	1-162-294-31	CERAMIC	0.001uF	10%	50V
C96	1-162-294-31	CERAMIC	0.001uF	10%	50V
C97	1-162-294-31	CERAMIC	0.001uF	10%	50V
C99	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN01	1-580-475-11	SOCKET, CONNECTOR 16P			
* CN03	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< DIODE >			
D01	8-719-911-19	DIODE 1SS119			
D04	8-719-109-89	DIODE RD5.6ESB2			
D05	8-719-109-89	DIODE RD5.6ESB2			
D09	8-719-109-93	DIODE RD6.2ESB2			
D35	8-719-982-11	DIODE MTZJ-4.3B			
D36	8-719-031-85	DIODE 1N4002L			
		< IC >			
IC01	8-752-069-56	IC CXA1782BQ			
IC02	8-752-373-06	IC CXD2508AQ			
IC03	8-759-429-31	IC BA5941FP			
IC04	8-759-234-75	IC TC74HC4094AP			
IC05	8-759-365-94	IC TA8409S			
IC07	8-759-505-55	IC NJM4558L			
		< COIL >			
L01	1-410-509-11	INDUCTOR 10uH			
L02	1-410-509-11	INDUCTOR 10uH			
		< TRANSISTOR >			
Q01	8-729-195-23	TRANSISTOR 2SA952			
Q02	8-729-195-23	TRANSISTOR 2SA952			
Q04	8-729-142-46	TRANSISTOR 2SC2001-LK			
Q05	8-729-142-46	TRANSISTOR 2SC2001-LK			
Q06	8-729-194-57	TRANSISTOR 2SC945-P			
Q07	8-729-194-57	TRANSISTOR 2SC945-P			
Q09	8-729-194-57	TRANSISTOR 2SC945-P			
Q10	8-729-194-57	TRANSISTOR 2SC945-P			

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R01	1-249-393-11	CARBON	10	5%	1/4W F
R02	1-247-847-11	CARBON	4.7K	5%	1/4W
R03	1-247-863-11	CARBON	22K	5%	1/4W
R04	1-249-430-11	CARBON	12K	5%	1/4W
R05	1-249-430-11	CARBON	12K	5%	1/4W
R06	1-249-430-11	CARBON	12K	5%	1/4W
R07	1-249-430-11	CARBON	12K	5%	1/4W
R08	1-249-430-11	CARBON	12K	5%	1/4W
R09	1-249-430-11	CARBON	12K	5%	1/4W
R10	1-247-879-11	CARBON	100K	5%	1/4W
R11	1-247-883-00	CARBON	150K	5%	1/4W
R13	1-247-879-11	CARBON	100K	5%	1/4W
R14	1-247-871-11	CARBON	47K	5%	1/4W
R15	1-247-871-11	CARBON	47K	5%	1/4W
R16	1-247-871-11	CARBON	47K	5%	1/4W
R17	1-247-871-11	CARBON	47K	5%	1/4W
R18	1-247-879-11	CARBON	100K	5%	1/4W
R19	1-249-431-11	CARBON	15K	5%	1/4W
R20	1-249-431-11	CARBON	15K	5%	1/4W
R21	1-247-841-11	CARBON	2.7K	5%	1/4W
R22	1-249-438-11	CARBON	56K	5%	1/4W
R23	1-247-879-11	CARBON	100K	5%	1/4W
R24	1-247-896-11	CARBON	510K	5%	1/4W
R25	1-247-879-11	CARBON	100K	5%	1/4W
R26	1-247-879-11	CARBON	100K	5%	1/4W
R27	1-247-881-00	CARBON	120K	5%	1/4W
R28	1-247-879-11	CARBON	100K	5%	1/4W
R29	1-249-428-11	CARBON	8.2K	5%	1/4W F
R30	1-247-863-11	CARBON	22K	5%	1/4W
R31	1-249-431-11	CARBON	15K	5%	1/4W
R32	1-247-887-00	CARBON	220K	5%	1/4W
R36	1-247-807-11	CARBON	100	5%	1/4W
R37	1-249-411-11	CARBON	330	5%	1/4W
R38	1-247-807-11	CARBON	100	5%	1/4W
R39	1-247-807-11	CARBON	100	5%	1/4W
R40	1-247-847-11	CARBON	4.7K	5%	1/4W
R41	1-247-883-00	CARBON	150K	5%	1/4W
R42	1-247-807-11	CARBON	100	5%	1/4W
R43	1-247-807-11	CARBON	100	5%	1/4W
R44	1-247-847-11	CARBON	4.7K	5%	1/4W
R45	1-247-843-11	CARBON	3.3K	5%	1/4W
R46	1-247-843-11	CARBON	3.3K	5%	1/4W
R47	1-247-855-11	CARBON	10K	5%	1/4W
R48	1-247-903-00	CARBON	1M	5%	1/4W
R49	1-247-855-11	CARBON	10K	5%	1/4W
R50	1-247-879-11	CARBON	100K	5%	1/4W
R52	1-249-409-11	CARBON	220	5%	1/4W F
R51	1-247-903-00	CARBON	1M	5%	1/4W
R53	1-247-847-11	CARBON	4.7K	5%	1/4W
R54	1-249-427-11	CARBON	6.8K	5%	1/4W F
R55	1-247-855-11	CARBON	10K	5%	1/4W
R56	1-247-863-11	CARBON	22K	5%	1/4W
R57	1-247-847-11	CARBON	4.7K	5%	1/4W
R58	1-247-871-11	CARBON	47K	5%	1/4W
R59	1-247-867-11	CARBON	33K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R60	1-249-442-11	CARBON	510	5%	1/4W
R61	1-247-855-11	CARBON	10K	5%	1/4W
R62	1-247-855-11	CARBON	10K	5%	1/4W
R63	1-247-855-11	CARBON	10K	5%	1/4W
R64	1-247-855-11	CARBON	10K	5%	1/4W
R65	1-247-867-11	CARBON	33K	5%	1/4W
R66	1-247-867-11	CARBON	33K	5%	1/4W
R67	1-247-867-11	CARBON	33K	5%	1/4W
R68	1-247-867-11	CARBON	33K	5%	1/4W
R69	1-249-430-11	CARBON	12K	5%	1/4W
R70	1-249-430-11	CARBON	12K	5%	1/4W
R71	1-249-430-11	CARBON	12K	5%	1/4W
R72	1-249-430-11	CARBON	12K	5%	1/4W
R73	1-247-839-11	CARBON	2.2K	5%	1/4W
R74	1-247-839-11	CARBON	2.2K	5%	1/4W
R75	1-247-839-11	CARBON	2.2K	5%	1/4W
R76	1-247-839-11	CARBON	2.2K	5%	1/4W
R81	1-247-847-11	CARBON	4.7K	5%	1/4W
R82	1-247-847-11	CARBON	4.7K	5%	1/4W
R84	1-247-855-11	CARBON	10K	5%	1/4W
R85	1-247-847-11	CARBON	4.7K	5%	1/4W
R86	1-249-427-11	CARBON	6.8K	5%	1/4W F
R87	1-247-863-11	CARBON	22K	5%	1/4W
R88	1-247-871-11	CARBON	47K	5%	1/4W
R89	1-249-413-11	CARBON	470	5%	1/4W F
R91	1-247-839-11	CARBON	2.2K	5%	1/4W
R92	1-249-412-11	CARBON	390	5%	1/4W F
R93	1-249-412-11	CARBON	390	5%	1/4W F
R94	1-247-847-11	CARBON	4.7K	5%	1/4W
R95	1-249-417-11	CARBON	1K	5%	1/4W F
R96	1-249-417-11	CARBON	1K	5%	1/4W F
R97	1-249-417-11	CARBON	1K	5%	1/4W F
		< VARIABLE RESISTOR >			
VR01	1-228-996-00	RES, ADJ, METAL 47K			
VR02	1-228-998-00	RES, ADJ, METAL 220K			
		< VIBRATOR >			
XTL01	1-760-123-11	VIBRATOR, CRYSTAL 33.86MHz			
**********					
*	1-670-848-11	CONNECTOR BOARD			
		**********			
		< CONNECTOR >			
CN04	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			
**********					
*	1-670-945-11	DISC BOARD			
		**********			
		< RESISTOR >			
R647	1-247-827-11	CARBON	680	5%	1/4W
R648	1-249-416-11	CARBON	820	5%	1/4W F
R649	1-249-418-11	CARBON	1.2K	5%	1/4W F
R650	1-247-835-11	CARBON	1.5K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
S636	1-771-478-11	SWITCH (DISC 1)			
S637	1-771-478-11	SWITCH (DISC 2)			
S638	1-771-478-11	SWITCH (DISC 3)			
S639	1-771-478-11	SWITCH (DISC 4)			
S640	1-771-478-11	SWITCH (DISC 5)			
**********					
*	1-670-847-11	DISC NO LED BOARD			
		**********			
		< DIODE >			
D06	8-719-301-60	DIODE SEL2910A-C			
**********					
*	1-670-948-11	DOOR SW BOARD			
		**********			
		< SWITCH >			
S641	1-771-169-11	SWITCH (DOOR)			
**********					
*	A-4414-964-A	FRONT BOARD, COMPLETE(G2500)			
		**********			
*	A-4414-976-A	FRONT BOARD, COMPLETE(XB20)			
		**********			
*	A-4414-980-A	FRONT BOARD, COMPLETE(XB22:MX,AR)			
		**********			
*	A-4414-984-A	FRONT BOARD,COMPLETE(XB22:E,AUS,SP,MY)			
		**********			
*	4-211-528-01	HOLDER, DISPLAY			
*	4-211-529-01	HOLDER (LED3-6), LED			
*	4-211-530-01	HOLDER (LED3-16), LED			
		< CAPACITOR >			
C601	1-164-159-11	CERAMIC	0.1uF		50V
C602	1-126-933-11	ELECT	100uF	20%	16V
C603	1-126-916-11	ELECT	1000uF	20%	6.3V
C604	1-130-487-00	MYLAR	0.022uF	5%	50V
C605	1-126-967-11	ELECT	47uF	20%	16V
C606	1-164-159-11	CERAMIC	0.1uF		50V
C607	1-126-961-11	ELECT	2.2uF	20%	50V
C608	1-126-960-11	ELECT	1uF	20%	50V
C609	1-164-159-11	CERAMIC	0.1uF		50V
C610	1-126-964-11	ELECT	10uF	20%	50V
C611	1-130-487-00	MYLAR	0.022uF	5%	50V
C612	1-102-960-00	CERAMIC	24PF	5%	50V
C613	1-102-960-00	CERAMIC	24PF	5%	50V
C614	1-130-491-00	MYLAR	0.047uF	5%	50V
C615	1-130-491-00	MYLAR	0.047uF	5%	50V
C616	1-126-933-11	ELECT	100uF	20%	16V
C617	1-162-282-31	CERAMIC	100PF	10%	50V
C618	1-126-964-11	ELECT	10uF	20%	50V
C620	1-126-964-11	ELECT	10uF	20%	50V
C621	1-130-487-00	MYLAR	0.022uF	5%	50V
C622	1-126-960-11	ELECT	1uF	20%	50V
C623	1-126-964-11	ELECT	10uF	20%	50V
C625	1-162-282-31	CERAMIC	100PF	10%	50V
C626	1-162-282-31	CERAMIC	100PF	10%	50V
C627	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remarks
C628	1-126-964-11	ELECT	10uF	20%	50V
C629	1-126-960-11	ELECT	1uF	20%	50V
C630	1-162-294-31	CERAMIC	0.001uF	10%	50V
C631	1-136-156-00	FILM	0.018uF	5%	50V
C632	1-136-156-00	FILM	0.018uF	5%	50V
C634	1-164-159-11	CERAMIC	0.1uF		50V
C636	1-130-487-00	MYLAR	0.022uF	5%	50V
C637	1-130-474-00	MYLAR	0.0018uF	5%	50V
C638	1-130-474-00	MYLAR	0.0018uF	5%	50V
C639	1-126-962-11	ELECT	3.3uF	20%	50V
C640	1-126-957-11	ELECT	0.22uF	20%	50V
C641	1-162-286-31	CERAMIC	220PF	10%	50V
C642	1-126-957-11	ELECT	0.22uF	20%	50V
C643	1-126-963-11	ELECT	4.7uF	20%	50V
C644	1-126-963-11	ELECT	4.7uF	20%	50V
C645	1-126-963-11	ELECT	4.7uF	20%	50V
C648	1-162-286-31	CERAMIC	220PF	10%	50V
C649	1-162-286-31	CERAMIC	220PF	10%	50V
C650	1-162-286-31	CERAMIC	220PF	10%	50V
C651	1-162-286-31	CERAMIC	220PF	10%	50V
C652	1-162-286-31	CERAMIC	220PF	10%	50V
C653	1-162-286-31	CERAMIC	220PF	10%	50V
C654	1-164-159-11	CERAMIC	0.1uF		50V
C655	1-164-159-11	CERAMIC	0.1uF		50V
C656	1-162-286-31	CERAMIC	220PF	10%	50V
C657	1-162-286-31	CERAMIC	220PF	10%	50V
C658	1-162-286-31	CERAMIC	220PF	10%	50V
C659	1-162-286-31	CERAMIC	220PF	10%	50V
C660	1-130-487-00	MYLAR	0.022uF	5%	50V
C661	1-162-294-31	CERAMIC	0.001uF	10%	50V
C662	1-162-294-31	CERAMIC	0.001uF	10%	50V
C663	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
CN601	1-785-178-11	HOUSING, CONNECTOR 14P			
CN602	1-770-403-11	HOUSING,CONNECTOR(PC BOARD)10P			
CN603	1-784-806-11	HOUSING,CONNECTOR(PC BOARD)13P			
		< DIODE >			
D601	8-719-911-19	DIODE 1SS119			
D602	8-719-911-19	DIODE 1SS119			
D603	8-719-911-19	DIODE 1SS119			
D604	8-719-911-19	DIODE 1SS119			
D605	8-719-010-34	DIODE UZ-4.7BSC			
D606	8-719-911-19	DIODE 1SS119 (XB20,G2500)			
D607	8-719-911-19	DIODE 1SS119 (XB22:E,MX,AR)			
D608	8-719-911-19	DIODE 1SS119 (XB22:E,MX,AR,G2500)			
D609	8-719-911-19	DIODE 1SS119 (XB20,G2500)			
D610	8-719-911-19	DIODE 1SS119 (XB20)			
D611	8-719-911-19	DIODE 1SS119 (XB22,G2500)			
D612	8-719-911-19	DIODE 1SS119 (XB20)			
D613	8-719-911-19	DIODE 1SS119			
D614	8-719-911-19	DIODE 1SS119			
D615	8-719-911-19	DIODE 1SS119			
D616	8-719-911-19	DIODE 1SS119			
D617	8-719-911-19	DIODE 1SS119			
D618	8-719-911-19	DIODE 1SS119			
		< FLUORECENT INDICATOR >			
FLD601	1-517-619-11	INDICATOR TUBE, FLUORESCENT			

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC601	8-759-545-53	IC LC866528A-5G83			
IC602	8-759-275-23	IC BU2092			
IC603	1-807-137-11	IC LA6324			
		< COIL >			
L601	1-408-096-00	INDUCTOR 470uH			
L602	1-408-611-31	INDUCTOR 47mH			
		< LED >			
LED601	8-719-812-44	DIODE TLO124			
LED602	8-719-312-70	DIODE SEL1410G			
LED603	8-719-312-70	DIODE SEL1410G			
LED604	8-719-312-70	DIODE SEL1410G			
LED605	8-719-312-70	DIODE SEL1410G			
		< TRANSISTOR >			
Q601	8-729-030-10	TRANSISTOR DTC144WS			
Q603	8-729-194-57	TRANSISTOR 2SC945-P			
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q605	8-729-194-57	TRANSISTOR 2SA1175-HFE			
Q606	8-729-900-66	TRANSISTOR DTA144ES			
		< RESISTOR >			
R601	1-247-871-11	CARBON	47K	5%	1/4W
R602	1-249-417-11	CARBON	1K	5%	1/4W F
R603	1-249-417-11	CARBON	1K	5%	1/4W F
R604	1-247-871-11	CARBON	47K	5%	1/4W
R605	1-247-871-11	CARBON	47K	5%	1/4W
R606	1-249-417-11	CARBON	1K	5%	1/4W F
R607	1-249-431-11	CARBON	15K	5%	1/4W
R608	1-247-871-11	CARBON	47K	5%	1/4W
R609	1-247-855-11	CARBON	10K	5%	1/4W
R610	1-247-855-11	CARBON	10K	5%	1/4W
R611	1-247-855-11	CARBON	10K	5%	1/4W
R612	1-247-855-11	CARBON	10K	5%	1/4W
R613	1-247-855-11	CARBON	10K	5%	1/4W
R614	1-247-827-11	CARBON	680	5%	1/4W
R615	1-249-416-11	CARBON	820	5%	1/4W F
R616	1-249-418-11	CARBON	1.2K	5%	1/4W F
R617	1-247-835-11	CARBON	1.5K	5%	1/4W
R618	1-247-839-11	CARBON	2.2K	5%	1/4W
R619	1-247-843-11	CARBON	3.3K	5%	1/4W
R620	1-247-847-11	CARBON	4.7K	5%	1/4W
R621	1-249-428-11	CARBON	8.2K	5%	1/4W F
R622	1-247-827-11	CARBON	680	5%	1/4W
R623	1-249-416-11	CARBON	820	5%	1/4W F
R624	1-249-418-11	CARBON	1.2K	5%	1/4W F
R625	1-247-835-11	CARBON	1.5K	5%	1/4W
R626	1-247-839-11	CARBON	2.2K	5%	1/4W
R627	1-247-843-11	CARBON	3.3K	5%	1/4W
R628	1-247-847-11	CARBON	4.7K	5%	1/4W
R629	1-249-428-11	CARBON	8.2K	5%	1/4W F
R630	1-247-827-11	CARBON	680	5%	1/4W
R631	1-249-416-11	CARBON	820	5%	1/4W F
R632	1-249-418-11	CARBON	1.2K	5%	1/4W F
R633	1-247-835-11	CARBON	1.5K	5%	1/4W
R634	1-247-839-11	CARBON	2.2K	5%	1/4W
R635	1-247-855-11	CARBON	10K	5%	1/4W

FRONT JOG LED

Ref. No.	Part No.	Description			Remarks
R651	1-247-807-11	CARBON	100	5%	1/4W
R652	1-247-807-11	CARBON	100	5%	1/4W
R653	1-247-871-11	CARBON	47K	5%	1/4W
R654	1-247-855-11	CARBON	10K	5%	1/4W
R656	1-247-855-11	CARBON	10K	5%	1/4W
R657	1-247-855-11	CARBON	10K	5%	1/4W
R658	1-247-855-11	CARBON	10K	5%	1/4W
R659	1-247-855-11	CARBON	10K	5%	1/4W
R660	1-247-855-11	CARBON	10K	5%	1/4W
R661	1-249-417-11	CARBON	1K	5%	1/4W F
R662	1-249-410-11	CARBON	270	5%	1/4W F
R663	1-249-410-11	CARBON	270	5%	1/4W F
R664	1-249-410-11	CARBON	270	5%	1/4W F
R665	1-249-410-11	CARBON	270	5%	1/4W F
R666	1-249-410-11	CARBON	270	5%	1/4W F
R667	1-249-417-11	CARBON	1K	5%	1/4W F
R668	1-249-417-11	CARBON	1K	5%	1/4W F
R669	1-249-417-11	CARBON	1K	5%	1/4W F
R670	1-247-855-11	CARBON	10K	5%	1/4W
R672	1-249-410-11	CARBON	270	5%	1/4W F
R673	1-249-407-11	CARBON	150	5%	1/4W F
R674	1-249-407-11	CARBON	150	5%	1/4W F
R675	1-249-407-11	CARBON	150	5%	1/4W F
R676	1-249-407-11	CARBON	150	5%	1/4W F
R677	1-249-417-11	CARBON	1K	5%	1/4W F
R678	1-249-410-11	CARBON	270	5%	1/4W F
R679	1-249-417-11	CARBON	1K	5%	1/4W F
R680	1-249-417-11	CARBON	1K	5%	1/4W F
R681	1-249-417-11	CARBON	1K	5%	1/4W F
R682	1-247-879-11	CARBON	100K	5%	1/4W
R684	1-249-417-11	CARBON	1K	5%	1/4W F
R685	1-247-881-00	CARBON	120K	5%	1/4W
R686	1-247-855-11	CARBON	10K	5%	1/4W
R687	1-247-897-11	CARBON	560K	5%	1/4W
R688	1-247-871-11	CARBON	47K	5%	1/4W
R689	1-249-417-11	CARBON	1K	5%	1/4W F
R690	1-247-885-00	CARBON	180K	5%	1/4W
R691	1-247-887-00	CARBON	220K	5%	1/4W
R692	1-247-901-11	CARBON	820K	5%	1/4W
R693	1-249-434-11	CARBON	27K	5%	1/4W
R694	1-247-879-11	CARBON	100K	5%	1/4W
R695	1-247-855-11	CARBON	10K	5%	1/4W
R696	1-247-855-11	CARBON	10K	5%	1/4W
R697	1-247-855-11	CARBON	10K	5%	1/4W
R698	1-247-897-11	CARBON	560K	5%	1/4W
R699	1-247-889-00	CARBON	270K	5%	1/4W
R700	1-249-410-11	CARBON	270	5%	1/4W F
R701	1-249-410-11	CARBON	270	5%	1/4W F
R705	1-249-439-11	CARBON	68K	5%	1/4W
R706	1-249-439-11	CARBON	68K	5%	1/4W
R707	1-249-439-11	CARBON	68K	5%	1/4W
R708	1-249-439-11	CARBON	68K	5%	1/4W
R709	1-249-410-11	CARBON	270	5%	1/4W F

< SWITCH >

S601	1-771-478-11	SWITCH, TACTILE (POWER)
S602	1-771-478-11	SWITCH, TACTILE (TIME CLOCK SET)
S603	1-771-478-11	SWITCH, TACTILE (DAILY 1)
S604	1-771-478-11	SWITCH, TACTILE (SLEEP)
S605	1-771-478-11	SWITCH, TACTILE (DISPLAY)
S606	1-771-478-11	SWITCH, TACTILE (SPEANA)
S607	1-771-478-11	SWITCH, TACTILE (TUNING MODE)
S608	1-771-478-11	SWITCH, TACTILE (TUNING MEMORY)
S609	1-771-478-11	SWITCH, TACTILE (ENTER NEXT)
S610	1-771-478-11	SWITCH, TACTILE (TAPE)
S611	1-771-478-11	SWITCH, TACTILE (CD)
S612	1-771-478-11	SWITCH, TACTILE (TUNER BAND)
S613	1-771-478-11	SWITCH, TACTILE (PHONO)
S614	1-771-478-11	SWITCH, TACTILE (ROCK)
S615	1-771-478-11	SWITCH, TACTILE (POP)
S616	1-771-478-11	SWITCH, TACTILE (JAZZ)
S617	1-771-478-11	SWITCH, TACTILE (SALSA)
S618	1-771-478-11	SWITCH, TACTILE (FLAT)
S619	1-771-478-11	SWITCH, TACTILE (TUNING UP)
S620	1-771-478-11	SWITCH, TACTILE (TUNING DOWN)
S621	1-771-478-11	SWITCH, TACTILE (STEREO/MONO)
S622	1-771-478-11	SWITCH, TACTILE (DBFB)
S623	1-771-478-11	SWITCH, TACTILE (DOLBY NR)
S624	1-771-478-11	SWITCH, TACTILE (SURROUND)

< VIBRATOR >

X601	1-579-743-11	VIBRATOR, CRYSTAL 6MHz

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*	1-670-947-11	JOG BOARD

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< RESISTOR >

R641	1-247-835-11	CARBON	1.5K	5%	1/4W
R642	1-247-839-11	CARBON	2.2K	5%	1/4W
R643	1-247-843-11	CARBON	3.3K	5%	1/4W
R644	1-247-847-11	CARBON	4.7K	5%	1/4W
R645	1-249-428-11	CARBON	8.2K	5%	1/4W F
R646	1-249-431-11	CARBON	15K	5%	1/4W

< SWITCH >

S630	1-771-478-11	SWITCH (FF)
S631	1-771-478-11	SWITCH (REW)
S632	1-771-478-11	SWITCH (PLAY MODE)
S633	1-771-478-11	SWITCH (REPEAT)
S634	1-771-478-11	SWITCH (1/ALL DISCS)
S635	1-771-478-11	SWITCH (EDIT)

< VARIABLE RESISTOR >

VR602	1-475-841-11	ENCODER (JOG)

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*	1-670-950-11	LED BOARD (XB22:AUS,MX,G2500)

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*	1-671-475-11	LED BOARD (XB22:E,SP,MY,AR,XB20)

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< DIODE >

D07	8-719-304-83	DIODE SEL2410G
D08	8-719-304-83	DIODE SEL2410G
D09	8-719-304-83	DIODE SEL2410G
D10	8-719-304-83	DIODE SEL2410G

< RESISTOR >

R448	1-249-412-11	CARBON	390	5%	1/4W F

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Ref. No.	Part No.	Description			Remarks
*	A-4414-973-A	MAIN BOARD, COMPLETE (XB22:MX,G2500)			
		**********			
*	A-4414-978-A	MAIN BOARD, COMPLETE (XB20)			
		**********			
*	A-4414-982-A	MAIN BOARD, COMPLETE (XB22:E,SP,MY,AR)			
		**********			
*	A-4414-986-A	MAIN BOARD, COMPLETE (XB22:AUS)			
		**********			
		< CAPACITOR >			
C101	1-162-294-31	CERAMIC	0.001uF	10%	50V (XB22:AUS,MX,G2500)
C102	1-162-294-31	CERAMIC	0.001uF	10%	50V (XB22:AUS,MX,G2500)
C103	1-162-193-31	CERAMIC	3.3PF	10%	50V (XB22:AUS,MX,G2500)
C104	1-161-494-00	CERAMIC	0.022uF		25V (XB22:AUS,MX,G2500)
C105	1-162-206-31	CERAMIC	20PF	5%	50V (XB22:AUS,MX,G2500)
C106	1-161-494-00	CERAMIC	0.022uF		25V
C107	1-162-306-11	CERAMIC	0.01uF	20%	16V
C108	1-104-665-11	ELECT	100uF	20%	10V
C110	1-162-191-31	CERAMIC	2.2PF	10%	50V (XB22:AUS,MX,G2500)
C111	1-162-217-31	CERAMIC	56PF	5%	50V (XB22:AUS,MX,G2500)
C112	1-162-282-31	CERAMIC	100PF	10%	50V (XB22:AUS,MX,G2500)
C113	1-164-159-11	CERAMIC	0.1uF		50V (XB22:E,SP,MY,AR,XB20)
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-161-494-00	CERAMIC	0.022uF		25V
C116	1-130-467-00	MYLAR	470PF	5%	50V
C117	1-162-206-31	CERAMIC	20PF	5%	50V
C118	1-104-665-11	ELECT	100uF	20%	10V
C119	1-162-206-31	CERAMIC	20PF	5%	50V (XB22:E,SP,MY,AR,XB20)
C120	1-161-494-00	CERAMIC	0.022uF		25V
C121	1-162-203-31	CERAMIC	15PF	5%	50V (XB22:AUS,MX,G2500)
C121	1-162-215-31	CERAMIC	47PF	5%	50V (XB22:E,SP,MY,AR,XB20)
C122	1-126-961-11	ELECT	2.2uF	20%	50V
C123	1-126-960-11	ELECT	1uF	20%	50V
C124	1-162-206-31	CERAMIC	20PF	5%	50V
C125	1-126-960-11	ELECT	1uF	20%	50V
C126	1-130-491-00	MYLAR	0.047uF	5%	50V
C127	1-126-964-11	ELECT	10uF	20%	50V
C128	1-161-494-00	CERAMIC	0.022uF		25V
C129	1-126-960-11	ELECT	1uF	20%	50V
C130	1-137-366-11	FILM	0.0022uF	5%	50V
C131	1-137-366-11	FILM	0.0022uF	5%	50V
C132	1-162-306-11	CERAMIC	0.01uF	20%	16V
C133	1-162-306-11	CERAMIC	0.01uF	20%	16V
C134	1-164-736-31	CERAMIC	0.0012uF	10%	50V (XB22:E,SP,MY,AR,XB20)
C135	1-162-294-31	CERAMIC	0.001uF	10%	50V (XB22:AUS,MX,G2500)
C135	1-162-285-31	CERAMIC	180PF	10%	50V (XB22:E,SP,MY,AR,XB20)
C137	1-126-959-11	ELECT	0.47uF	20%	50V
C138	1-162-306-11	CERAMIC	0.01uF	20%	16V
C139	1-161-494-00	CERAMIC	0.022uF		25V
C140	1-104-665-11	ELECT	100uF	20%	10V
C141	1-161-494-00	CERAMIC	0.022uF		25V
C142	1-104-665-11	ELECT	100uF	20%	10V
C143	1-126-959-11	ELECT	0.47uF	20%	50V
C144	1-161-494-00	CERAMIC	0.022uF		25V
C145	1-162-217-31	CERAMIC	56PF	5%	50V
C146	1-162-294-31	CERAMIC	0.001uF	10%	50V
C148	1-161-494-00	CERAMIC	0.022uF		25V
C149	1-162-294-31	CERAMIC	0.001uF	10%	50V
C150	1-164-159-11	CERAMIC	0.1uF		50V (XB22:E,SP,MY,AR,XB20)
C151	1-128-551-11	ELECT	22uF	20%	25V
C152	1-162-282-31	CERAMIC	100PF	10%	50V
C154	1-162-282-31	CERAMIC	100PF	10%	50V
C155	1-162-282-31	CERAMIC	100PF	10%	50V
C156	1-162-209-31	CERAMIC	27PF	5%	50V
C157	1-162-209-31	CERAMIC	27PF	5%	50V
C158	1-104-664-11	ELECT	47uF	20%	25V
C159	1-162-306-11	CERAMIC	0.01uF	20%	16V
C160	1-126-963-11	ELECT	4.7uF	20%	50V
C161	1-126-963-11	ELECT	4.7uF	20%	50V
C162	1-161-494-00	CERAMIC	0.022uF		25V
C163	1-161-494-00	CERAMIC	0.022uF		25V
C164	1-126-962-11	ELECT	3.3uF	20%	50V
C165	1-162-294-31	CERAMIC	0.001uF	10%	50V
C166	1-162-294-31	CERAMIC	0.001uF	10%	50V (XB22:AUS,MX,G2500)
C167	1-162-199-31	CERAMIC	10PF	5%	50V (XB22:E,SP,MY,AR,XB20)
C169	1-130-491-00	MYLAR	0.047uF	5%	50V (XB22:E,SP,MY,AR,XB20)
C171	1-162-206-31	CERAMIC	20PF	5%	50V (XB22:E,SP,MY,AR,XB20)
C172	1-161-494-00	CERAMIC	0.022uF		25V (XB22:E,SP,MY,AR,XB20)
C173	1-161-494-00	CERAMIC	0.022uF		25V (XB22:E,SP,MY,AR,XB20)
C174	1-162-206-31	CERAMIC	20PF	5%	50V (XB22:E,SP,MY,AR,XB20)
C175	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C176	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C177	1-161-494-00	CERAMIC	0.022uF		25V
C178	1-162-285-31	CERAMIC	180PF	10%	50V (XB22:E,SP,MY,AR,XB20)
C179	1-130-491-00	MYLAR	0.047uF	5%	50V (XB22:E,SP,MY,AR,XB20)
C181	1-164-159-11	CERAMIC	0.1uF		50V (XB22:E,SP,MY,AR,XB20)
C185	1-162-294-31	CERAMIC	0.001uF	10%	50V (XB22:E,SP,MY,AR,XB20)
C187	1-161-494-00	CERAMIC	0.022uF		25V
C188	1-164-159-11	CERAMIC	0.1uF		50V (XB22:AUS,MX,G2500)
C189	1-162-294-31	CERAMIC	0.001uF	10%	50V (XB22:AUS,MX,G2500)

MAIN

Ref. No.	Part No.	Description			Remarks
C190	1-164-159-11	CERAMIC	0.1uF		50V
C192	1-161-494-00	CERAMIC	0.022uF		25V
C193	1-162-294-31	CERAMIC	0.001uF	10%	50V
			(XB22:E,SP,MY,AR,XB20)		
C194	1-162-294-31	CERAMIC	0.001uF	10%	50V
			(XB22:E,SP,MY,AR,XB20)		
C195	1-162-294-31	CERAMIC	0.001uF	10%	50V
			(XB22:E,SP,MY,AR,XB20)		
C302	1-137-437-11	FILM	0.0056uF	5%	50V
C303	1-137-437-11	FILM	0.0056uF	5%	50V
C305	1-126-959-11	ELECT	0.47uF	20%	50V
C306	1-126-959-11	ELECT	0.47uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-959-11	ELECT	0.47uF	20%	50V
C309	1-162-199-31	CERAMIC	10PF	5%	50V
C310	1-162-199-31	CERAMIC	10PF	5%	50V
C311	1-126-959-11	ELECT	0.47uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-162-292-31	CERAMIC	680PF	10%	50V
C314	1-162-292-31	CERAMIC	680PF	10%	50V
C315	1-137-366-11	FILM	0.0022uF	5%	50V
C316	1-137-366-11	FILM	0.0022uF	5%	50V
C317	1-162-294-31	CERAMIC	0.001uF	10%	50V
C318	1-162-294-31	CERAMIC	0.001uF	10%	50V
C319	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C320	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C321	1-162-290-31	CERAMIC	470PF	10%	50V
C322	1-162-290-31	CERAMIC	470PF	10%	50V
C325	1-137-371-11	FILM	0.015uF	5%	50V
C326	1-137-371-11	FILM	0.015uF	5%	50V
C327	1-126-934-11	ELECT	220uF	20%	16V
C328	1-126-934-11	ELECT	220uF	20%	16V
C329	1-162-199-31	CERAMIC	10PF	5%	50V
C330	1-162-199-31	CERAMIC	10PF	5%	50V
C331	1-126-960-11	ELECT	1uF	20%	50V
C332	1-126-960-11	ELECT	1uF	20%	50V
C333	1-126-933-11	ELECT	100uF	20%	16V
C334	1-126-960-11	ELECT	1uF	20%	50V
C335	1-126-960-11	ELECT	1uF	20%	50V
C336	1-126-962-11	ELECT	3.3uF	20%	50V
C337	1-126-962-11	ELECT	3.3uF	20%	50V
C338	1-126-964-11	ELECT	10uF	20%	50V
C338A	1-164-159-11	CERAMIC	0.1uF		50V
C339	1-126-959-11	ELECT	0.47uF	20%	50V
C340	1-126-959-11	ELECT	0.47uF	20%	50V
C341	1-137-457-11	FILM	0.0027uF	5%	50V
C342	1-137-457-11	FILM	0.0027uF	5%	50V
C343	1-126-962-11	ELECT	3.3uF	20%	50V
C344	1-126-962-11	ELECT	3.3uF	20%	50V
C345	1-109-953-11	ELECT	2.2uF	20%	50V
C346	1-164-159-11	CERAMIC	0.1uF		50V
C347	1-162-288-31	CERAMIC	330PF	10%	50V
C348	1-162-288-31	CERAMIC	330PF	10%	50V
C349	1-162-282-31	CERAMIC	100PF	10%	50V
C350	1-162-282-31	CERAMIC	100PF	10%	50V
C351	1-137-457-11	FILM	0.0027uF	5%	50V
C352	1-137-457-11	FILM	0.0027uF	5%	50V
C353	1-126-960-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C354	1-126-960-11	ELECT	1uF	20%	50V
C355	1-126-933-11	ELECT	100uF	20%	16V
C356	1-126-933-11	ELECT	100uF	20%	16V
C368	1-109-889-11	ELECT	1uF	20%	50V
C371	1-126-961-11	ELECT	2.2uF	20%	50V
C374	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C375	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C376	1-137-371-11	FILM	0.015uF	5%	50V
C377	1-137-371-11	FILM	0.015uF	5%	50V
C378	1-126-959-11	ELECT	0.47uF	20%	50V
C379	1-126-959-11	ELECT	0.47uF	20%	50V
C380	1-162-286-31	CERAMIC	220PF	10%	50V
C381	1-162-286-31	CERAMIC	220PF	10%	50V
C382	1-162-286-31	CERAMIC	220PF	10%	50V
C383	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C384	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C386	1-164-159-11	CERAMIC	0.1uF		50V
			(XB22:E,SP,MY,AR,XB20)		
C387	1-164-159-11	CERAMIC	0.1uF		50V
			(XB22:E,SP,MY,AR,XB20)		
C388	1-164-159-11	CERAMIC	0.1uF		50V
			(XB22:E,SP,MY,AR,XB20)		
C401	1-161-494-00	CERAMIC	0.022uF		25V
C402	1-126-933-11	ELECT	100uF	20%	16V
C403	1-126-934-11	ELECT	220uF	20%	16V
C404	1-161-494-00	CERAMIC	0.022uF		25V
C405	1-126-933-11	ELECT	100uF	20%	16V
C406	1-126-960-11	ELECT	1uF	20%	50V
C407	1-126-960-11	ELECT	1uF	20%	50V
C408	1-162-282-31	CERAMIC	100PF	10%	50V
C409	1-162-282-31	CERAMIC	100PF	10%	50V
C410	1-126-933-11	ELECT	100uF	20%	16V
C411	1-126-933-11	ELECT	100uF	20%	16V
C413	1-126-964-11	ELECT	10uF	20%	50V
C414	1-126-964-11	ELECT	10uF	20%	50V
C415	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C416	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C418	1-126-933-11	ELECT	100uF	20%	16V
C419	1-161-494-00	CERAMIC	0.022uF		25V
C420	1-161-494-00	CERAMIC	0.022uF		25V
C421	1-164-159-11	CERAMIC	0.1uF		50V
C426	1-126-963-11	ELECT	4.7uF	20%	50V
C427	1-126-961-11	ELECT	2.2uF	20%	50V
C429	1-164-159-11	CERAMIC	0.1uF		50V
C430	1-126-933-11	ELECT	100uF	20%	16V
C431	1-126-933-11	ELECT	100uF	20%	16V
C432	1-162-294-31	CERAMIC	0.001uF	10%	50V
C433	1-162-294-31	CERAMIC	0.001uF	10%	50V
C434	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C435	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C436	1-130-482-00	MYLAR	0.0082uF	5%	50V
C437	1-130-482-00	MYLAR	0.0082uF	5%	50V
C438	1-126-963-11	ELECT	4.7uF	20%	50V
C439	1-126-963-11	ELECT	4.7uF	20%	50V
C440	1-162-290-31	CERAMIC	470PF	10%	50V
C441	1-162-290-31	CERAMIC	470PF	10%	50V
C442	1-162-282-31	CERAMIC	100PF	10%	50V
C443	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remarks
C444	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C445	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C446	1-126-962-11	ELECT	3.3uF	20%	50V
C447	1-126-962-11	ELECT	3.3uF	20%	50V
C471	1-126-933-11	ELECT	100uF	20%	16V
C801	1-162-294-31	CERAMIC	0.001uF	10%	50V
C802	1-162-294-31	CERAMIC	0.001uF	10%	50V
C803	1-162-294-31	CERAMIC	0.001uF	10%	50V
C804	1-162-294-31	CERAMIC	0.001uF	10%	50V
C805	1-164-159-11	CERAMIC	0.1uF		50V
C806	1-126-933-11	ELECT	100uF	20%	16V
C807	1-126-963-11	ELECT	4.7uF	20%	50V
C808	1-126-963-11	ELECT	4.7uF	20%	50V
C809	1-126-963-11	ELECT	4.7uF	20%	50V
C811	1-104-663-11	ELECT	33uF	20%	25V
C812	1-104-663-11	ELECT	33uF	20%	25V
C813	1-162-284-31	CERAMIC	150PF	10%	50V
C814	1-162-284-31	CERAMIC	150PF	10%	50V
C815	1-162-282-31	CERAMIC	100PF	10%	50V
C816	1-162-282-31	CERAMIC	100PF	10%	50V
C817	1-162-306-11	CERAMIC	0.01uF	20%	16V
C818	1-162-306-11	CERAMIC	0.01uF	20%	16V
C819	1-126-963-11	ELECT	4.7uF	20%	50V
C820	1-126-963-11	ELECT	4.7uF	20%	50V
C821	1-162-293-31	CERAMIC	820PF	10%	50V
C822	1-162-293-31	CERAMIC	820PF	10%	50V
C823	1-162-282-31	CERAMIC	100PF	10%	50V
C824	1-162-282-31	CERAMIC	100PF	10%	50V
C825	1-164-159-11	CERAMIC	0.1uF		50V
C826	1-126-933-11	ELECT	100uF	20%	16V
C827	1-128-551-11	ELECT	22uF	20%	25V
C828	1-104-664-11	ELECT	47uF	20%	25V
C829	1-126-934-11	ELECT	220uF	20%	16V
C830	1-126-933-11	ELECT	100uF	20%	16V
C831	1-126-960-11	ELECT	1uF	20%	50V
C832	1-126-960-11	ELECT	1uF	20%	50V
C833	1-162-282-31	CERAMIC	100PF	10%	50V
C834	1-162-282-31	CERAMIC	100PF	10%	50V
C835	1-162-287-31	CERAMIC	270PF	10%	50V
C836	1-162-287-31	CERAMIC	270PF	10%	50V
C837	1-162-287-31	CERAMIC	270PF	10%	50V
C838	1-162-287-31	CERAMIC	270PF	10%	50V
C839	1-126-960-11	ELECT	1uF	20%	50V
C840	1-126-960-11	ELECT	1uF	20%	50V
C841	1-164-736-31	CERAMIC	0.0012uF	10%	50V
C842	1-164-736-31	CERAMIC	0.0012uF	10%	50V
C845	1-162-285-31	CERAMIC	180PF	10%	50V
C846	1-162-285-31	CERAMIC	180PF	10%	50V
C847	1-126-960-11	ELECT	1uF	20%	50V
C848	1-126-960-11	ELECT	1uF	20%	50V
C849	1-128-551-11	ELECT	22uF	20%	25V
C850	1-161-494-00	CERAMIC	0.022uF		25V
C851	1-109-889-11	ELECT	1uF	20%	50V
C852	1-109-889-11	ELECT	1uF	20%	50V
C853	1-130-474-00	MYLAR	0.0018uF	5%	50V

Ref. No.	Part No.	Description			Remarks
C854	1-130-474-00	MYLAR	0.0018uF	5%	50V
C855	1-126-964-11	ELECT	10uF	20%	50V
C856	1-126-964-11	ELECT	10uF	20%	50V
C857	1-126-933-11	ELECT	100uF	20%	16V
C858	1-126-933-11	ELECT	100uF	20%	16V
C859	1-124-254-00	ELECT	0.68uF	20%	50V
C860	1-124-254-00	ELECT	0.68uF	20%	50V
C861	1-126-964-11	ELECT	10uF	20%	50V
C862	1-126-964-11	ELECT	10uF	20%	50V
C863	1-126-964-11	ELECT	10uF	20%	50V
C864	1-126-964-11	ELECT	10uF	20%	50V
C865	1-162-293-31	CERAMIC	820PF	10%	50V
C866	1-162-293-31	CERAMIC	820PF	10%	50V
C867	1-128-551-11	ELECT	22uF	20%	25V
C868	1-126-964-11	ELECT	10uF	20%	50V
C869	1-126-956-11	ELECT	0.1uF	20%	50V
C870	1-126-956-11	ELECT	0.1uF	20%	50V
C871	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C872	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C874	1-126-963-11	ELECT	4.7uF	20%	50V
C875	1-137-367-11	FILM	0.0033uF	5%	50V
C876	1-161-494-00	CERAMIC	0.022uF		25V
C877	1-126-961-11	ELECT	2.2uF	20%	50V
C880	1-137-368-11	FILM	0.0047uF	5%	50V
C881	1-137-367-11	FILM	0.0033uF	5%	50V
C882	1-137-371-11	FILM	0.015uF	5%	50V
C883	1-162-292-31	CERAMIC	680PF	10%	50V
C884	1-162-292-31	CERAMIC	680PF	10%	50V
C885	1-162-286-31	CERAMIC	220PF	10%	50V
C886	1-162-286-31	CERAMIC	220PF	10%	50V
C887	1-130-481-00	MYLAR	0.0068uF	5%	50V
C888	1-126-934-11	ELECT	220uF	20%	16V
C891	1-126-960-11	ELECT	1uF	20%	50V
C892	1-162-219-31	CERAMIC	68PF	5%	50V
C893	1-162-219-31	CERAMIC	68PF	5%	50V
C894	1-126-963-11	ELECT	4.7uF	20%	50V
C895	1-126-963-11	ELECT	4.7uF	20%	50V
C896	1-104-664-11	ELECT	47uF	20%	25V
C897	1-126-925-11	ELECT	470uF	20%	10V
C901	1-161-494-00	CERAMIC	0.022uF		25V
C902	1-161-494-00	CERAMIC	0.022uF		25V

< FILTER >

CF101	1-567-390-11	FILTER,CERAMIC 10.7M
CF102	1-567-390-11	FILTER,CERAMIC 10.7M
CF103	1-527-996-11	FILTER, CERAMIC
CF104	1-579-856-31	DISCRIMINATOR, CERAMIC
CF105	1-577-091-11	OSCILLATOR, CERAMIC

< CONNECTOR >

*	CN301	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
	CN601	1-784-176-11	SOCKET, CONNECTOR 4P
*	CN602	1-770-394-11	PIN, CONNECTOR (PC BOARD) 10P
*	CN801	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
	CN802	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P
*	CN803	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P

MAIN

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D101	8-719-991-33	DIODE 1SS133T-77	
D102	8-719-991-33	DIODE 1SS133T-77	
D103	8-719-991-33	DIODE 1SS133T-77	
D104	8-719-991-33	DIODE 1SS133T-77	
D105	8-719-057-68	DIODE KV1340A (XB22:AUS,MX,G2500)	
D106	8-719-057-68	DIODE SBS001C-TB (XB22:AUS,MX,G2500)	
D107	8-719-800-72	DIODE 1SV149-B	
D108	8-719-991-33	DIODE 1SS133T-77 (XB22:E,SP,MY,AR,XB20)	
D109	8-719-991-33	DIODE 1SS133T-77	
D110	8-719-109-89	DIODE RD5.6ESB2	
D111	8-719-991-33	DIODE 1SS133T-77	
D113	8-719-991-33	DIODE 1SS133T-77 (XB22:AUS,MX,G2500)	
D301	8-719-991-33	DIODE 1SS133T-77	
D302	8-719-991-33	DIODE 1SS133T-77	
D303	8-719-991-33	DIODE 1SS133T-77	
D401	8-719-110-31	DIODE RD12ES-B2	
D402	8-719-109-93	DIODE RD6.2ESB2	
D801	8-719-991-33	DIODE 1SS133T-77	
D802	8-719-991-33	DIODE 1SS133T-77	
D803	8-719-991-33	DIODE 1SS133T-77	
D804	8-719-991-33	DIODE 1SS133T-77	
D805	8-719-991-33	DIODE 1SS133T-77	
D806	8-719-991-33	DIODE 1SS133T-77	
D807	8-719-991-33	DIODE 1SS133T-77	
D808	8-719-991-33	DIODE 1SS133T-77	
D809	8-719-991-33	DIODE 1SS133T-77	
D810	8-719-991-33	DIODE 1SS133T-77	
		< FRONTEND >	
FE101	1-693-422-11	FRONT END (XB22:E,SP,MY,AR,XB20)	
		< IC >	
IC101	8-759-801-96	IC LA1186 (XB22:AUS,MX,G2500)	
IC102	8-759-090-40	IC LA1831	
IC103	8-759-175-87	IC LC7218-ST	
IC301	8-759-473-59	IC LC75392	
IC302	8-759-000-49	IC MC14066BCP	
IC303	8-759-112-93	IC UPC4570HA-1	
IC401	8-759-505-55	IC NJM4558L	
IC402	8-759-634-51	IC M5218AP	
IC801	8-759-206-23	IC TA7784P	
IC802	8-759-545-67	IC TA8135P	
IC803	8-752-057-19	IC CXA1101P	
		< JACK >	
JK101	1-694-092-21	TERMINAL BOARD (ANTENNA) (XB22:AUS,MX,G2500)	
JK102	1-694-126-11	TERMINAL BOARD (ANTENNA) (XB22:E,SP,MY,AR,XB20)	
JK301	1-770-771-11	JACK, PIN 2P (PHONO)	
JK401	1-785-081-11	JACK (LARGE TYPE) (PHONES)	
		< COIL >	
L101	1-429-550-11	TRANSFORMER, FM ANT	
L102	1-429-551-11	TRANSFORMER, FM RF (XB22:AUS,MX,G2500)	
L103	1-411-798-11	COIL, FM OSC (XB22:AUS,MX,G2500)	
L104	1-411-901-11	COIL, ANTENNA	
L105	1-429-555-11	TRANSFORMER, MW OSC	
L106	1-412-507-11	INDUCTOR 47uH	
L107	1-416-741-11	COIL (LW ANT) (XB22:E,SP,MY,AR,XB20)	
L108	1-412-503-11	INDUCTOR 22uH (XB22:E,SP,MY,AR,XB20)	
L109	1-410-527-11	INDUCTOR 100uH (XB22:E,SP,MY,AR,XB20)	
L110	1-416-742-11	COIL (LW.OSC) (XB22:E,SP,MY,AR,XB20)	
L111	1-410-783-11	INDUCTOR 47mH	
L112	1-410-783-11	INDUCTOR 47mH	
L113	1-412-503-11	INDUCTOR 22uH	
L114	1-412-503-11	INDUCTOR 22uH (XB22:E,SP,MY,AR,XB20)	
L401	1-408-096-00	INDUCTOR 470uH	
L801	1-410-775-11	INDUCTOR 10mH	
L802	1-410-775-11	INDUCTOR 10mH	
L803	1-236-147-11	FILTER, LOW PASS	
L804	1-236-147-11	FILTER, LOW PASS	
L805	1-416-746-11	INDUCTOR, VARIABLE	
L806	1-416-746-11	INDUCTOR, VARIABLE	
L808	1-408-096-00	INDUCTOR 470uH	
L809	1-433-412-11	TRANSFORMER, BIAS OSCILLATION	
		< TRANSISTOR >	
Q101	1-807-810-21	TRANSISTOR 2SC1675TP-L	
Q102	1-807-810-21	TRANSISTOR 2SC1675TP-L (XB22:AUS,MX,G2500)	
Q103	8-729-142-46	TRANSISTOR 2SC2001-LK (XB22:E,SP,MY,AR,XB20)	
Q104	8-729-194-57	TRANSISTOR 2SC945-P (XB22:E,SP,MY,AR,XB20)	
Q105	8-729-142-46	TRANSISTOR 2SC2001-LK (XB22:E,SP,MY,AR,XB20)	
Q106	8-729-119-76	TRANSISTOR 2SA1175-HFE (XB22:E,SP,MY,AR,XB20)	
Q107	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q108	8-729-041-83	TRANSISTOR 2SK544E (XB22:E,SP,MY,AR,XB20)	
Q112	8-729-194-57	TRANSISTOR 2SC945-P	
Q113	8-729-194-57	TRANSISTOR 2SC945-P	
Q114	8-729-902-80	TRANSISTOR DTA114YS	
Q116	8-729-194-57	TRANSISTOR 2SC945-P	
Q117	8-729-194-57	TRANSISTOR 2SC945-P	
Q301	8-729-194-57	TRANSISTOR 2SC945-P	
Q302	8-729-194-57	TRANSISTOR 2SC945-P	
Q303	8-729-194-57	TRANSISTOR 2SC945-P	
Q304	8-729-194-57	TRANSISTOR 2SC945-P	
Q305	8-729-194-57	TRANSISTOR 2SC945-P	
Q306	8-729-194-57	TRANSISTOR 2SC945-P	
Q307	8-729-204-90	TRANSISTOR 2SK246-GR1	
Q308	8-729-194-57	TRANSISTOR 2SC945-P	
Q309	8-729-194-57	TRANSISTOR 2SC945-P	
Q310	8-729-422-57	TRANSISTOR UN4111	
Q311	8-729-194-57	TRANSISTOR 2SC945-P	
Q312	8-729-194-57	TRANSISTOR 2SC945-P	
Q401	8-729-993-43	TRANSISTOR 2SA934R	
Q402	8-729-194-57	TRANSISTOR 2SC945-P	
Q403	8-729-142-46	TRANSISTOR 2SC2001-LK	
Q404	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q405	8-729-232-32	TRANSISTOR 2SA965	
Q406	8-729-194-57	TRANSISTOR 2SC945-P	
Q407	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q408	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q409	8-729-140-96	TRANSISTOR 2SD774-34	
Q410	8-729-422-57	TRANSISTOR UN4111	

Ref. No.	Part No.	Description					Remarks
Q411	8-729-194-57	TRANSISTOR	2SC945-P				
Q801	8-729-194-57	TRANSISTOR	2SC945-P				
Q802	8-729-194-57	TRANSISTOR	2SC945-P				
Q803	8-729-194-57	TRANSISTOR	2SC945-P				
Q804	8-729-194-57	TRANSISTOR	2SC945-P				
Q805	8-729-194-57	TRANSISTOR	2SC945-P				
Q806	8-729-194-57	TRANSISTOR	2SC945-P				
Q807	8-729-194-57	TRANSISTOR	2SC945-P				
Q808	8-729-194-57	TRANSISTOR	2SC945-P				
Q809	8-729-194-57	TRANSISTOR	2SC945-P				
Q810	8-729-194-57	TRANSISTOR	2SC945-P				
Q811	8-729-194-57	TRANSISTOR	2SC945-P				
Q812	8-729-194-57	TRANSISTOR	2SC945-P				
Q813	8-729-194-57	TRANSISTOR	2SC945-P				
Q814	8-729-194-57	TRANSISTOR	2SC945-P				
Q815	8-729-194-57	TRANSISTOR	2SC945-P				
Q816	8-729-142-46	TRANSISTOR	2SC2001-LK				
Q817	8-729-142-46	TRANSISTOR	2SC2001-LK				
Q818	8-729-194-57	TRANSISTOR	2SC945-P				
Q819	8-729-194-57	TRANSISTOR	2SC945-P				
Q820	8-729-194-57	TRANSISTOR	2SC945-P				
Q822	8-729-194-57	TRANSISTOR	2SC945-P				
Q823	8-729-119-76	TRANSISTOR	2SA1175-HFE				
Q824	8-729-194-57	TRANSISTOR	2SC945-P				
Q825	8-729-194-57	TRANSISTOR	2SC945-P				
Q826	8-729-119-76	TRANSISTOR	2SA1175-HFE				
		< RESISTOR >					
R101	1-247-879-11	CARBON	100K	5%	1/4W		
R102	1-249-417-11	CARBON	1K	5%	1/4W	F	
			(XB22:AUS,MX,G2500)				
R103	1-249-397-11	CARBON	22	5%	1/4W	F	
			(XB22:AUS,MX,G2500)				
R104	1-247-807-11	CARBON	100	5%	1/4W		
			(XB22:AUS,MX,G2500)				
R104	1-249-409-11	CARBON	220	5%	1/4W	F	
			(XB22:E,SP,MY,AR,XB20)				
R105	1-249-411-11	CARBON	330	5%	1/4W		
R106	1-247-849-11	CARBON	5.6K	5%	1/4W		
R107	1-249-427-11	CARBON	6.8K	5%	1/4W	F	
R109	1-247-871-11	CARBON	47K	5%	1/4W		
			(XB22:AUS,MX,G2500)				
R110	1-247-867-11	CARBON	33K	5%	1/4W		
			(XB22:AUS,MX,G2500)				
R111	1-249-417-11	CARBON	1K	5%	1/4W	F	
			(XB22:AUS,MX,G2500)				
R112	1-247-807-11	CARBON	100	5%	1/4W		
			(XB22:AUS,MX,G2500)				
R112	1-249-407-11	CARBON	150	5%	1/4W	F	
			(XB22:E,SP,MY,AR,XB20)				
R113	1-247-879-11	CARBON	100K	5%	1/4W		
R114	1-247-879-11	CARBON	100K	5%	1/4W		
R115	1-249-417-11	CARBON	1K	5%	1/4W	F	
R116	1-249-883-11	CARBON	22	5%	1/4W		
R117	1-247-855-11	CARBON	10K	5%	1/4W		
R118	1-247-807-11	CARBON	100	5%	1/4W		
R119	1-249-413-11	CARBON	470	5%	1/4W	F	
R120	1-247-843-11	CARBON	3.3K	5%	1/4W		
R121	1-247-843-11	CARBON	3.3K	5%	1/4W		
R123	1-249-428-11	CARBON	8.2K	5%	1/4W	F	
R124	1-247-843-11	CARBON	3.3K	5%	1/4W		
R126	1-249-417-11	CARBON	1K	5%	1/4W	F	

Ref. No.	Part No.	Description					Remarks
R127	1-249-417-11	CARBON	1K	5%	1/4W	F	
R128	1-249-431-11	CARBON	15K	5%	1/4W		
R129	1-249-431-11	CARBON	15K	5%	1/4W		
R130	1-259-531-11	CARBON	100	1%	1/2W		
R131	1-249-923-11	CARBON	1K	5%	1/4W		
R132	1-247-855-11	CARBON	10K	5%	1/4W		
R133	1-247-843-11	CARBON	3.3K	5%	1/4W		
R134	1-249-427-11	CARBON	6.8K	5%	1/4W	F	
R135	1-247-847-11	CARBON	4.7K	5%	1/4W		
R136	1-247-847-11	CARBON	4.7K	5%	1/4W		
R137	1-247-855-11	CARBON	10K	5%	1/4W		
R138	1-247-807-11	CARBON	100	5%	1/4W		
R139	1-247-855-11	CARBON	10K	5%	1/4W		
R140	1-247-855-11	CARBON	10K	5%	1/4W		
R141	1-249-417-11	CARBON	1K	5%	1/4W	F	
R142	1-249-417-11	CARBON	1K	5%	1/4W	F	
R143	1-249-417-11	CARBON	1K	5%	1/4W	F	
R144	1-249-411-11	CARBON	330	5%	1/4W		
R147	1-247-843-11	CARBON	3.3K	5%	1/4W		
R150	1-247-863-11	CARBON	22K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R151	1-247-843-11	CARBON	3.3K	5%	1/4W		
R155	1-247-843-11	CARBON	3.3K	5%	1/4W		
R156	1-247-863-11	CARBON	22K	5%	1/4W		
R157	1-247-863-11	CARBON	22K	5%	1/4W		
R158	1-247-863-11	CARBON	22K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R159	1-247-863-11	CARBON	22K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R160	1-247-879-11	CARBON	100K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R161	1-247-871-11	CARBON	47K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R162	1-247-855-11	CARBON	10K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R163	1-247-855-11	CARBON	10K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R164	1-247-863-11	CARBON	22K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R165	1-247-855-11	CARBON	10K	5%	1/4W		
			(XB22:E,SP,MY,AR,XB20)				
R167	1-249-417-11	CARBON	1K	5%	1/4W	F	
R301	1-247-839-11	CARBON	2.2K	5%	1/4W		
R302	1-247-839-11	CARBON	2.2K	5%	1/4W		
R303	1-249-417-11	CARBON	1K	5%	1/4W	F	
R304	1-249-417-11	CARBON	1K	5%	1/4W	F	
R305	1-247-835-11	CARBON	1.5K	5%	1/4W		
R306	1-247-835-11	CARBON	1.5K	5%	1/4W		
R307	1-247-847-11	CARBON	4.7K	5%	1/4W		
R308	1-247-847-11	CARBON	4.7K	5%	1/4W		
R309	1-249-440-11	CARBON	82K	5%	1/4W		
R310	1-249-440-11	CARBON	82K	5%	1/4W		
R311	1-247-871-11	CARBON	47K	5%	1/4W		
R312	1-247-871-11	CARBON	47K	5%	1/4W		
R313	1-247-867-11	CARBON	33K	5%	1/4W		
R314	1-247-867-11	CARBON	33K	5%	1/4W		
R315	1-247-867-11	CARBON	33K	5%	1/4W		
R316	1-247-867-11	CARBON	33K	5%	1/4W		
R317	1-247-887-00	CARBON	220K	5%	1/4W		

MAIN

Ref. No.	Part No.	Description			Remarks
R318	1-247-887-00	CARBON	220K	5%	1/4W
R319	1-247-855-11	CARBON	10K	5%	1/4W
R320	1-247-855-11	CARBON	10K	5%	1/4W
R321	1-249-434-11	CARBON	27K	5%	1/4W
R322	1-249-434-11	CARBON	27K	5%	1/4W
R323	1-247-871-11	CARBON	47K	5%	1/4W
R324	1-247-871-11	CARBON	47K	5%	1/4W
R325	1-247-863-11	CARBON	22K	5%	1/4W
R326	1-247-863-11	CARBON	22K	5%	1/4W
R327	1-249-434-11	CARBON	27K	5%	1/4W
R328	1-249-434-11	CARBON	27K	5%	1/4W
R329	1-249-430-11	CARBON	12K	5%	1/4W
R330	1-249-430-11	CARBON	12K	5%	1/4W
R331	1-249-417-11	CARBON	1K	5%	1/4W F
R332	1-249-417-11	CARBON	1K	5%	1/4W F
R333	1-249-417-11	CARBON	1K	5%	1/4W F
R334	1-247-855-11	CARBON	10K	5%	1/4W
R335	1-247-855-11	CARBON	10K	5%	1/4W
R336	1-247-847-11	CARBON	4.7K	5%	1/4W
R337	1-247-704-11	CARBON	220	5%	1/4W F
R338	1-249-544-11	CARBON	470	5%	1/4W
R339	1-247-903-00	CARBON	1M	5%	1/4W
R340	1-247-903-00	CARBON	1M	5%	1/4W
R341	1-247-847-11	CARBON	4.7K	5%	1/4W
R342	1-247-847-11	CARBON	4.7K	5%	1/4W
R344	1-247-839-11	CARBON	2.2K	5%	1/4W
R345	1-247-839-11	CARBON	2.2K	5%	1/4W
R346	1-249-432-11	CARBON	18K	5%	1/4W
R347	1-249-432-11	CARBON	18K	5%	1/4W
R348	1-247-879-11	CARBON	100K	5%	1/4W
R349	1-247-871-11	CARBON	47K	5%	1/4W
R350	1-247-871-11	CARBON	47K	5%	1/4W
R351	1-247-871-11	CARBON	47K	5%	1/4W
R352	1-247-855-11	CARBON	10K	5%	1/4W
R353	1-249-465-11	CARBON	47K	5%	1/4W
R354	1-247-871-11	CARBON	47K	5%	1/4W
R355	1-247-871-11	CARBON	47K	5%	1/4W
R358	1-247-871-11	CARBON	47K	5%	1/4W
R359	1-247-871-11	CARBON	47K	5%	1/4W
R366	1-247-871-11	CARBON	47K	5%	1/4W
R367	1-247-879-11	CARBON	100K	5%	1/4W
R368	1-247-871-11	CARBON	47K	5%	1/4W
R369	1-247-871-11	CARBON	47K	5%	1/4W
R370	1-249-431-11	CARBON	15K	5%	1/4W
R371	1-249-431-11	CARBON	15K	5%	1/4W
R372	1-247-887-00	CARBON	220K	5%	1/4W
R373	1-247-887-00	CARBON	220K	5%	1/4W
R375	1-249-544-11	CARBON	470	5%	1/4W
R376	1-247-839-11	CARBON	2.2K	5%	1/4W
R377	1-247-839-11	CARBON	2.2K	5%	1/4W
R378	1-247-867-11	CARBON	33K	5%	1/4W
R379	1-247-867-11	CARBON	33K	5%	1/4W
R380	1-247-843-11	CARBON	3.3K	5%	1/4W
R381	1-247-843-11	CARBON	3.3K	5%	1/4W
R384	1-249-465-11	CARBON	47K	5%	1/4W
R385	1-247-871-11	CARBON	47K	5%	1/4W
R386	1-249-465-11	CARBON	47K	5%	1/4W
R387	1-247-871-11	CARBON	47K	5%	1/4W
R388	1-249-465-11	CARBON	47K	5%	1/4W
R389	1-247-871-11	CARBON	47K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R390	1-249-465-11	CARBON	47K	5%	1/4W
R391	1-247-871-11	CARBON	47K	5%	1/4W
R393	1-249-431-11	CARBON	15K	5%	1/4W
R394	1-249-544-11	CARBON	470	5%	1/4W
R397	1-247-871-11	CARBON	47K	5%	1/4W
R398	1-247-871-11	CARBON	47K	5%	1/4W
R401	1-249-560-91	CARBON	2.2K	5%	1/4W
R402	1-249-417-11	CARBON	1K	5%	1/4W F
R403	1-247-871-11	CARBON	47K	5%	1/4W
R404	1-247-871-11	CARBON	47K	5%	1/4W
R405	1-247-871-11	CARBON	47K	5%	1/4W
R406	1-247-855-11	CARBON	10K	5%	1/4W
R407	1-247-855-11	CARBON	10K	5%	1/4W
R408	1-247-871-11	CARBON	47K	5%	1/4W
R409	1-247-871-11	CARBON	47K	5%	1/4W
R410	1-249-546-11	CARBON	560	5%	1/4W
R411	1-247-704-11	CARBON	220	5%	1/4W F
R412	1-249-516-11	CARBON	33	5%	1/4W
R413	1-249-516-11	CARBON	33	5%	1/4W
R414	1-247-839-11	CARBON	2.2K	5%	1/4W
R415	1-247-839-11	CARBON	2.2K	5%	1/4W
R416	1-247-895-00	CARBON	470K	5%	1/4W
R417	1-247-855-11	CARBON	10K	5%	1/4W
R418	1-247-835-11	CARBON	1.5K	5%	1/4W
R420	1-249-544-11	CARBON	470	5%	1/4W
R421	1-249-417-11	CARBON	1K	5%	1/4W F
R422	1-249-417-11	CARBON	1K	5%	1/4W F
R428	1-247-855-11	CARBON	10K	5%	1/4W
R429	1-247-855-11	CARBON	10K	5%	1/4W
R430	1-247-855-11	CARBON	10K	5%	1/4W
R431	1-247-855-11	CARBON	10K	5%	1/4W
R432	1-249-544-11	CARBON	470	5%	1/4W
R433	1-249-544-11	CARBON	470	5%	1/4W
R434	1-247-879-11	CARBON	100K	5%	1/4W
R435	1-247-879-11	CARBON	100K	5%	1/4W
R436	1-247-893-11	CARBON	390K	5%	1/4W
R437	1-247-893-11	CARBON	390K	5%	1/4W
R438	1-247-867-11	CARBON	33K	5%	1/4W
R439	1-247-867-11	CARBON	33K	5%	1/4W
R440	1-249-418-11	CARBON	1.2K	5%	1/4W F
R441	1-249-418-11	CARBON	1.2K	5%	1/4W F
R442	1-249-417-11	CARBON	1K	5%	1/4W F
R443	1-249-417-11	CARBON	1K	5%	1/4W F
R444	1-247-855-11	CARBON	10K	5%	1/4W
R445	1-247-855-11	CARBON	10K	5%	1/4W
R446	1-249-417-11	CARBON	1K	5%	1/4W F
R447	1-249-417-11	CARBON	1K	5%	1/4W F
R449	1-247-855-11	CARBON	10K	5%	1/4W
R450	1-216-446-00	METAL OXIDE	18	5%	2W F
R452	1-247-855-11	CARBON	10K	5%	1/4W
R453	1-249-417-11	CARBON	1K	5%	1/4W F
R454	1-247-847-11	CARBON	4.7K	5%	1/4W
R455	1-247-847-11	CARBON	4.7K	5%	1/4W
R467	1-249-417-11	CARBON	1K	5%	1/4W F
R801	1-249-393-11	CARBON	10	5%	1/4W F
R802	1-249-393-11	CARBON	10	5%	1/4W F
R803	1-247-855-11	CARBON	10K	5%	1/4W
R804	1-247-855-11	CARBON	10K	5%	1/4W
R805	1-247-855-11	CARBON	10K	5%	1/4W
R806	1-247-855-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R807	1-249-434-11	CARBON	27K	5%	1/4W
R808	1-249-417-11	CARBON	1K	5%	1/4W F
R809	1-247-855-11	CARBON	10K	5%	1/4W
R810	1-247-843-11	CARBON	3.3K	5%	1/4W
R811	1-247-847-11	CARBON	4.7K	5%	1/4W
R812	1-247-704-11	CARBON	220	5%	1/4W F
R813	1-247-855-11	CARBON	10K	5%	1/4W
R814	1-249-427-11	CARBON	6.8K	5%	1/4W F
R815	1-249-427-11	CARBON	6.8K	5%	1/4W F
R816	1-247-891-00	CARBON	330K	5%	1/4W
R817	1-247-891-00	CARBON	330K	5%	1/4W
R818	1-249-465-11	CARBON	47K	5%	1/4W
R819	1-247-871-11	CARBON	47K	5%	1/4W
R820	1-249-431-11	CARBON	15K	5%	1/4W
R821	1-249-431-11	CARBON	15K	5%	1/4W
R822	1-249-434-11	CARBON	27K	5%	1/4W
R823	1-249-434-11	CARBON	27K	5%	1/4W
R824	1-247-843-11	CARBON	3.3K	5%	1/4W
R825	1-247-843-11	CARBON	3.3K	5%	1/4W
R826	1-249-546-11	CARBON	560	5%	1/4W
R827	1-247-863-11	CARBON	22K	5%	1/4W
R828	1-247-704-11	CARBON	220	5%	1/4W F
R829	1-247-863-11	CARBON	22K	5%	1/4W
R830	1-249-427-11	CARBON	6.8K	5%	1/4W F
R831	1-247-855-11	CARBON	10K	5%	1/4W
R832	1-247-855-11	CARBON	10K	5%	1/4W
R833	1-247-855-11	CARBON	10K	5%	1/4W
R834	1-247-879-11	CARBON	100K	5%	1/4W
R835	1-247-879-11	CARBON	100K	5%	1/4W
R836	1-247-847-11	CARBON	4.7K	5%	1/4W
R837	1-249-417-11	CARBON	1K	5%	1/4W F
R838	1-249-417-11	CARBON	1K	5%	1/4W F
R839	1-249-428-11	CARBON	8.2K	5%	1/4W F
R840	1-249-428-11	CARBON	8.2K	5%	1/4W F
R841	1-247-889-00	CARBON	270K	5%	1/4W
R842	1-247-889-00	CARBON	270K	5%	1/4W
R843	1-247-849-11	CARBON	5.6K	5%	1/4W
R844	1-247-849-11	CARBON	5.6K	5%	1/4W
R845	1-247-863-11	CARBON	22K	5%	1/4W
R846	1-247-863-11	CARBON	22K	5%	1/4W
R847	1-249-417-11	CARBON	1K	5%	1/4W F
R848	1-249-417-11	CARBON	1K	5%	1/4W F
R849	1-247-879-11	CARBON	100K	5%	1/4W
R850	1-247-855-11	CARBON	10K	5%	1/4W
R851	1-247-855-11	CARBON	10K	5%	1/4W
R852	1-247-903-00	CARBON	1M	5%	1/4W
R853	1-247-903-00	CARBON	1M	5%	1/4W
R854	1-247-847-11	CARBON	4.7K	5%	1/4W
R855	1-249-568-11	CARBON	4.7K	5%	1/4W
R856	1-247-841-11	CARBON	2.7K	5%	1/4W
R857	1-247-841-11	CARBON	2.7K	5%	1/4W
R858	1-247-849-11	CARBON	5.6K	5%	1/4W
R859	1-247-849-11	CARBON	5.6K	5%	1/4W
R860	1-249-417-11	CARBON	1K	5%	1/4W F
R861	1-249-432-11	CARBON	18K	5%	1/4W
R862	1-249-432-11	CARBON	18K	5%	1/4W
R863	1-247-871-11	CARBON	47K	5%	1/4W
R864	1-247-871-11	CARBON	47K	5%	1/4W
R865	1-247-847-11	CARBON	4.7K	5%	1/4W
R866	1-247-847-11	CARBON	4.7K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R867	1-247-879-11	CARBON	100K	5%	1/4W
R868	1-249-431-11	CARBON	15K	5%	1/4W
R869	1-249-431-11	CARBON	15K	5%	1/4W
R870	1-247-855-11	CARBON	10K	5%	1/4W
R871	1-247-855-11	CARBON	10K	5%	1/4W
R872	1-247-867-11	CARBON	33K	5%	1/4W
R873	1-247-867-11	CARBON	33K	5%	1/4W
R874	1-247-839-11	CARBON	2.2K	5%	1/4W
R875	1-247-839-11	CARBON	2.2K	5%	1/4W
R876	1-249-439-11	CARBON	68K	5%	1/4W
R877	1-249-439-11	CARBON	68K	5%	1/4W
R878	1-247-870-11	CARBON	43K	5%	1/4W
R879	1-247-855-11	CARBON	10K	5%	1/4W
R880	1-247-704-11	CARBON	220	5%	1/4W F
R881	1-247-855-11	CARBON	10K	5%	1/4W
R882	1-247-855-11	CARBON	10K	5%	1/4W
R883	1-249-417-11	CARBON	1K	5%	1/4W F
R884	1-249-417-11	CARBON	1K	5%	1/4W F
R885	1-249-584-11	CARBON	22K	5%	1/4W
R886	1-249-431-11	CARBON	15K	5%	1/4W
R887	1-247-843-11	CARBON	3.3K	5%	1/4W
R888	1-247-855-11	CARBON	10K	5%	1/4W
R889	1-249-568-11	CARBON	4.7K	5%	1/4W
R890	1-247-855-11	CARBON	10K	5%	1/4W
R891	1-247-855-11	CARBON	10K	5%	1/4W
R892	1-247-855-11	CARBON	10K	5%	1/4W
R893	1-249-381-11	CARBON	1	5%	1/4W F
R894	1-249-399-11	CARBON	33	5%	1/4W F
R895	1-249-431-11	CARBON	15K	5%	1/4W
R896	1-249-431-11	CARBON	15K	5%	1/4W
R898	1-249-391-11	CARBON	6.8	5%	1/4W F
R899	1-249-391-11	CARBON	6.8	5%	1/4W F
R900	1-247-855-11	CARBON	10K	5%	1/4W
R901	1-249-784-11	CARBON	180	1%	1/2W
R902	1-247-855-11	CARBON	10K	5%	1/4W
R903	1-247-855-11	CARBON	10K	5%	1/4W
R904	1-247-855-11	CARBON	10K	5%	1/4W
R905	1-247-883-00	CARBON	150K	5%	1/4W
R906	1-247-847-11	CARBON	4.7K	5%	1/4W
R907	1-247-847-11	CARBON	4.7K	5%	1/4W

< ADJ >

SFR101	1-228-995-00	RES, ADJ, METAL 22K	(XB22:E,SP,MY,AR,XB20)
SFR801	1-228-990-00	RES, ADJ, METAL 1K	
SFR802	1-228-990-00	RES, ADJ, METAL 1K	
SFR803	1-228-995-00	RES, ADJ, METAL 22K	
SFR804	1-228-995-00	RES, ADJ, METAL 22K	
SFR805	1-228-995-00	RES, ADJ, METAL 22K	
SFR806	1-228-995-00	RES, ADJ, METAL 22K	
SFR807	1-228-997-00	RES, ADJ, METAL 100K	
SFR808	1-228-997-00	RES, ADJ, METAL 100K	
SFR809	1-228-994-00	RES, ADJ, METAL 10K	
SRF101	1-228-995-00	RES, ADJ, METAL 22K (XB22:AUS,MX,G2500)	

< SWITCH >

SW101	1-762-735-11	SWITCH, SLIDE (XB22:E,SP,MY,AR)

MAIN **MOTOR** **MOTOR (6P) (C)** **PLAY SW** **POWER SELECT**
POWER SUPPLY **R/P SWITCH** **TABLE SENSOR**

Ref. No.	Part No.	Description			Remarks
		< TRANSFORMER >			
T101	1-429-553-11	TRANSFORMER, FM IFT (XB22:AUS,MX,G2500)			
T102	1-429-554-11	TRANSFORMER, AM IFT			
T103	1-429-533-11	TRANSFORMER,POWER (XB22:E,SP,MY,AR,XB20)			
		< TRIMMER >			
TC101	1-141-304-21	CAP, TRIMMER 10PF(XB22:AUS,MX,G2500)			
TC102	1-141-304-21	CAP, TRIMMER 10PF			
TC103	1-141-245-00	CAP, TRIMMER 30PF(XB22:E,SP,MY,AR,XB20)			
TC104	1-141-304-21	CAP, TRIMMER 10PF			
TC105	1-141-245-00	CAP, TRIMMER 30PF(XB22:E,SP,MY,AR,XB20)			
		< VIBRATOR >			
X101	1-579-585-11	VIBRATOR, CRYSTAL 7.2MHz			
**********					
*	1-670-849-11	MOTOR BOARD			
		**********			
		< CAPACITOR >			
C87	1-164-159-11	CERAMIC	0.1uF	50V	
		< SWITCH >			
S06	1-762-587-11	SWITCH, PUSH (1 KEY) (UP)			
		< MOTOR >			
M01	1-541-632-11	MOTOR, DC			
**********					
	1-639-678-12	MOTOR (6P) (C) BOARD			
		**********			
		< CONNECTOR >			
CN1	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< SWITCH >			
S1	1-572-085-11	SWITCH, LEAF (LIMIT)			
		< MOTOR >			
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)			
M102	X-2625-769-1	MOTOR ASSY (SLED)			
**********					
*	1-670-946-11	PLAY SW BOARD			
		**********			
*	4-211-529-01	HOLDER (LED3-6), LED			
		< LED >			
LED607	8-719-304-83	DIODE SEL2410G			
LED608	8-719-812-44	DIODE TLO124			
LED609	8-719-304-83	DIODE SEL2410G			
		< RESISTOR >			
R638	1-247-827-11	CARBON	680	5% 1/4W	
R639	1-249-416-11	CARBON	820	5% 1/4W	F
R640	1-249-418-11	CARBON	1.2K	5% 1/4W	F

Ref. No.	Part No.	Description			Remarks
		< SWITCH >			
S626	1-771-478-11	SWITCH (PLAY)			
S627	1-771-478-11	SWITCH (PAUSE)			
S628	1-771-478-11	SWITCH (STOP)			
S629	1-771-478-11	SWITCH (DISC SKIP)			
**********					
*	1-670-952-11	POWER SELECT BOARD (XB22:E,SP,MY,AR)			
		**********			
		< SWITCH >			
⚠SW401	1-771-477-11	SELECTOR, VOLTAGE			
**********					
*	1-670-951-11	POWER SUPPLY BOARD			
		**********			
*	1-533-213-31	HOLDER, FUSE			
		< FUSE >			
⚠F702	1-532-464-31	FUSE TIME LAG 2.5A/250V (XB20)			
⚠F702	1-532-505-31	FUSE TIME LAG 5A/250V (XB22:E,SP,MY,AR)			
⚠F702	1-576-109-11	FUSE 5A/125V (XB22:MX,G2500)			
⚠F703	1-532-464-31	FUSE TIME LAG 2.5A/250V (XB22:E,SP,MY,AR)			
		< RESISTOR >			
⚠R001	1-219-238-11	SOLID	4.7M	20% 1/2W (XB22:E,SP,MY,MX,AR,G2500)	
**********					
*	1-666-444-11	R/P SWITCH BOARD			
		**********			
		< CAPACITOR >			
C236	1-126-024-11	ELECT	220uF	20% 16V	
C244	1-161-494-00	CERAMIC	0.022uF	25V	
		< DIODE >			
D206	8-719-200-02	DIODE 10E2			
D207	8-719-200-02	DIODE 10E2			
		< COIL >			
L202	1-408-072-00	INDUCTOR	47uH		
		< SWITCH >			
SW201	1-571-135-11	SWITCH, PUSH (1 KEY)			
**********					
*	1-670-846-11	TABLE SENSOR BOARD			
		**********			
		< PHOTO >			
SENS01	8-749-924-18	PHOTO INTERRUPTER RPI-1391			
		< RESISTOR >			
R90	1-249-416-11	CARBON	820	5% 1/4W	F
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remarks
*	1-670-944-11	SENSOR BOARD	
		**********	
		< SENSOR >	
RM601	8-749-013-84	IC SPS-447-1	
**********			
*	1-671-028-11	VR BOARD	
		********	
		< VARIABLE RESISTOR >	
VR601	1-475-807-11	ENCODER, ROTARY (VOLUME)	
**********			
		MISCELLANEOUS	
		**********	
⚠157	1-551-188-99	CORD, POWER (E,MX)	
⚠157	1-555-795-00	CORD, POWER, EULO PLUG (SP,MY,AR,AEP)	
⚠157	1-556-035-00	CORD, POWER (UK)	
⚠157	1-559-583-11	CORD, POWER (US)	
263	1-759-417-11	DECK, MECHANICAL	
⚠408	8-848-379-31	OPTICAL PICK-UP KSS-213B/SN	
410	1-783-740-11	WIRE (FLAT TYPE)(16 CORE)	
HE901	9-980-284-01	E HEAD (ERASE)	
HP901	9-980-282-01	P HEAD (PLAY)	
HRP901	9-980-283-01	RP HEAD (REC/PLAY)	
M101	X-2625-877-1	MOTOR ASSY (SPINDLE)	
M102	X-2625-769-1	MOTOR ASSY (SLED)	
M901	9-980-285-01	MOTOR (CAPSTAN/REEL)	
⚠PT301	1-431-992-11	TRANSFORMER, POWER (US)	
⚠PT301	1-431-993-11	TRANSFORMER, POWER (AEP,UK)	
⚠PT301	1-431-994-11	TRANSFORMER, POWER (E,SP,MY,AR)	
⚠PT301	1-431-995-11	TRANSFORMER, POWER (MX)	
⚠PT301	1-431-996-11	TRANSFORMER, POWER (AUS)	
SW202	9-980-274-01	LEAF SWITCH (A DECK)	
SW203	9-980-274-01	LEAF SWITCH (B DECK)	
SW204	9-980-275-01	LEAF SWITCH (PLAY)	
**********			

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-475-829-11	REMOTE COMMANDER (RM-SG5)	
	1-501-374-11	ANTENNA, LOOP	
	1-501-594-11	ANTENNA (FM) (XB22,G2500)	
	1-501-807-11	ANTENNA (FM) (XB20)	
	3-862-441-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-862-441-31	MANUAL, INSTRUCTION (FRENCH/SPANISH) (XB22:E,SP,MY,MX,AR)	
	3-862-441-41	MANUAL, INSTRUCTION (CHINESE) (XB22:E,SP,MY)	
	3-862-441-51	MANUAL, INSTRUCTION (FRENCH/SPANISH/PORTUGUESE)(XB20:AEP)	
	3-862-441-61	MANUAL, INSTRUCTION (GERMAN)(XB20:AEP)	
	3-862-441-71	MANUAL, INSTRUCTION (DUTCH/ITALIAN/SWEDISH)(XB20:AEP)	
	3-862-441-81	MANUAL, INSTRUCTION (POLISH/RUSSIAN) (XB20)	
	3-862-442-11	MANUAL, INSTRUCTION (HUNGARIAN) (XB20:AEP)	
	3-862-442-21	MANUAL, INSTRUCTION (GREEK)(XB20:AEP)	
	3-862-442-31	MANUAL, INSTRUCTION (CZECH)(XB20:AEP)	
	3-862-442-41	MANUAL, INSTRUCTION (TURKISH)(XB20:AEP)	
	4-982-031-01	COVER, BATTERY (for RM-SG5)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-903-21	SCREW +PTPWH 3 × 8 (TYPE2)	
#2	7-682-547-09	SCREW +B 3 × 6	
#3	7-685-547-19	SCREW +BTP 3 × 10 TYPE2 N-S	
#4	7-685-871-01	SCREW +BVTT 3 × 6 (S)	
#5	7-685-534-19	SCREW +BTP 2.6 × 8 TYPE2 N-S	
#6	7-685-134-19	SCREW +P 2.6 × 8 TYPE2 NON-SLIT	
#7	7-685-875-09	SCREW +BVTT 3 × 14 (S)	
#8	7-685-871-01	SCREW +BVTT 3 × 6 (S)	
#9	7-685-881-09	SCREW +BVTT 4 × 8 (S)	
#10	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 IT-3	
#13	7-685-903-21	SCREW +PTPWH 3 × 8 (TYPE2)	
#14	7-621-255-15	SCREW +P 2 × 3	

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9-922-866-11

Sony Corporation
Home A&V Products Company

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(Shibaura)

SS-G2500/XB20/XB22

SERVICE MANUAL

Photo : SS-G2500

US Model
SS-G2500
AEP Model
UK Model
SS-XB20
E Model
Australian Model
SS-XB22

• This set is a front speaker system in LBT-G2500/XB20/XB22.

SPECIFICATIONS

Speaker system	2 - way, bass-reflex type
Speaker units	
Woofer :	17 cm dia., cone type
Tweeter :	5 cm dia., cone type
Nominal impedance	6 ohms
Dimensions (w/h/d)	Approx. 245 × 423 × 298 mm ($9\ ^3/_4 \times 16\ ^3/_4 \times 11\ ^3/_4$ in)
Mass	Approx. 5.4 kg (11 lb 14 oz.) net per speaker

Design and specifications are subject to change without notice.

FRONT SPEAKER SYSTEM

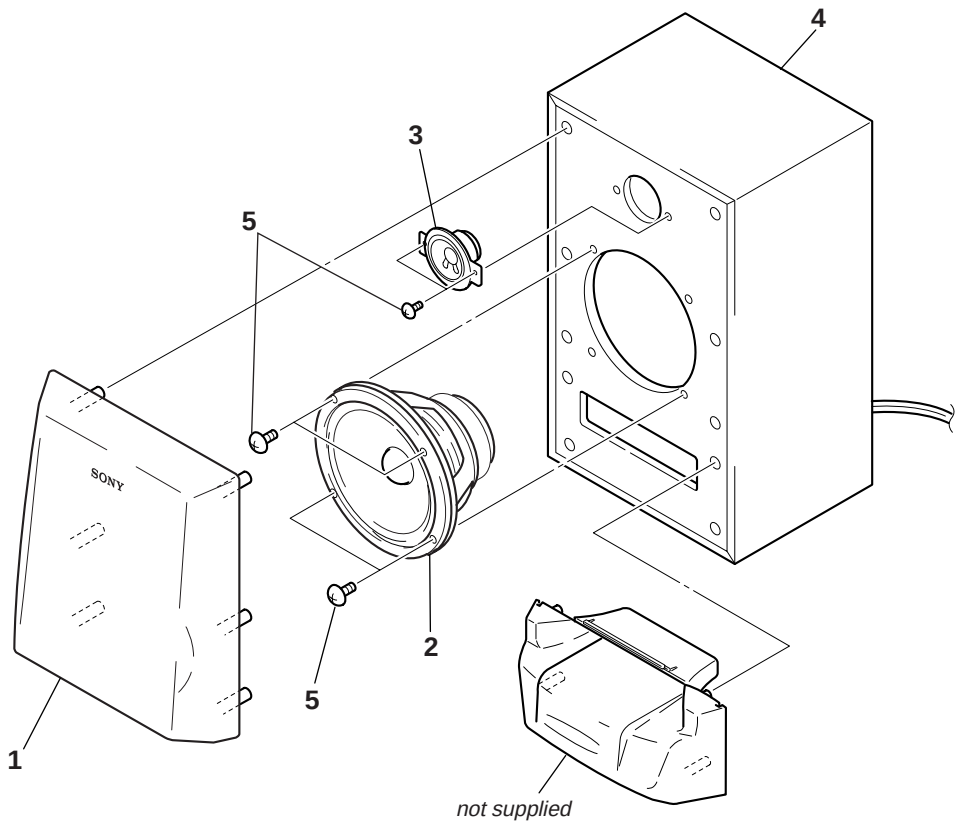
MICROFILM

SONY®

EXPLODED VIEW AND PARTS LIST

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.



Ref. No.	Part No.	Description	Remarks
1	X-4950-273-1	GRILLE ASSY, FRONT (G2500)	
1	X-4950-274-1	GRILLE ASSY, FRONT (XB20/XB22)	
2	1-529-119-11	SPEAKER (17 cm) (G2500/XB22)	
2	1-529-120-11	SPEAKER (17 cm) (XB20)	
3	1-505-998-11	SPEAKER (5 cm) (G2500/XB22)	
3	1-505-999-11	SPEAKER (5 cm) (XB20)	
* 4	4-211-386-01	BOX (G2500)	
* 4	4-211-388-01	BOX (XB20/XB22)	
5	7-685-146-19	SCREW	

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